



# FORMULA E SUSTAINABILITY REPORT

SEASON TWO 2015/2016

Formula E Operations Ltd  
9th Floor, 3 Shortlands, Hammersmith, London, W6 8DA



# WELCOME

It is my pleasure to welcome you to view the findings of our second sustainability report. This report once again demonstrates how sustainability is integral to our business strategy and the values of the FIA Formula E Championship. As was the case in the inaugural season, we have worked hard to measure and analyse data that covers all areas of Formula E.

The findings from these extensive studies have been outlined in the following report and using the baseline from season one, clearly show the effort and commitment that has been focused on improving our sustainable credentials.

Formula E has many reasons to feel proud of the achievements that have been made. The sustainability report aims to openly outline the fact that we are aware of our environmental impacts as a company, and show that we are going to lengths to ensure the reduction of our footprint where possible.

As the world's first fully-electric single-seater racing series, it can be seen that sustainability is deeply rooted in the ethos of Formula E. We have proven that electric vehicle technology can create spectacular and entertaining racing while raising awareness of environmental issues through the fusion of technology, sustainability and innovation.

We share a belief that through our collaboration with some of the world's leading companies, we can revolutionise the technology used in electric vehicles, and also to help change the perception of electric cars. The report outlines how our vision, aims and values since our inception have been implemented into our business strategy.

Our environmental policy, and objectives and targets underpin the direction of how we wish to move forward in upcoming seasons, and highlight everything in which we believe will lead us to a sustainable future.

Thank you for your interest in our sustainability report and we welcome your feedback as we continuously work to improve our environment.

Yours sincerely,

**Alejandro Agag**  
**Founder & Chief Executive Officer,**  
**Formula E Operations Ltd**





# OVERVIEW

Formula E is the electric street racing series, defined by the latest innovations in electric vehicle technology, alternative energy solutions and thrilling racing in the heart of some of the most beautiful cities in the world. Formula E is disruptive in motorsport, redefining the very boundaries of what a sport can be through the unique fusion of entertainment, sustainability, technology and innovation. We are fighting climate change by offering electric vehicles as a solution to air pollution in city centres and breaking down the barriers to the electric vehicle market: technology, infrastructure and perceptions.

Throughout season two we renewed our Life Cycle Assessment, calculating our footprint in all areas of the championships activities, not only in terms of carbon but also water, ecosystems quality, natural resources and human health.

The footprint from our second season was calculated at 12,000 tCO<sub>2</sub>-eq, a significant decrease on our season one footprint which was 25,000 tCO<sub>2</sub>-eq. This shows an improvement on the quality of our data collection from where we had to overestimate our season one impact. Our most impacting areas were freight, business travel and food and drinks in the eVillage, crew catering and hospitality areas. The benefit of using this approach is that negative impacts are pinpointed and are the basis for decisive tailoring and implementation of sustainable strategies for reduction through verified and accurate information.

For all of the emissions which we cannot avoid as a championship, we will neutralise through carbon offsetting schemes to become the first championship to achieve carbon neutrality. Thanks to our partnership with the leaders in renewable energy solutions, Enel, we will identify the most suitable carbon offsetting projects within their worldwide portfolio, which will not only benefit environmental protection but also have very strong social benefits to the local communities.

Building on the strong foundations that we put in place for sustainability in our first season, we have made significant progress in growing and improving our management systems. Formula E came together with the FIA Institute to implement our Environmental Management System, and we are very proud to have become the first championship to ever receive the highest level of environmental accreditation, the Achievement of Excellence.

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*In the events surrounding the 2016 Visa London ePrix, we implemented the International Standard for Sustainability in Events, the ISO 20121 and received first party certification.*

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The implementation represents our next steps towards a more holistic approach to ensure a positive impact not only on the environment, but also social inclusivity and economic prosperity. Using the knowledge and experience we gained from the 2016 Visa London ePrix, we will strive to receive third party certification for the entire championship from season four onwards, setting the benchmark for the rest of the motorsport industry.

We believe that electric vehicles represent the future and are the answer to sustainable transportation and fighting climate change. However we acknowledge that in our push into the electric era and the transition towards low carbon societies, the power used needs to be low carbon too. That's why we power our cars with a virtually zero emission and one hundred per cent renewable fuel, from our revolutionary Formula E Glycerine Generators. At the 2016 Visa London ePrix, 80 per cent of our energy needs were powered by renewable energy. We are committed to RE100 and in the future it is our vision to have our whole event become one hundred per cent renewable.



Our partnership with Enel is helping us to optimise our clean energy generation and offers a test bed for Enel's advancement of renewable technologies, smart grids and e-mobility solutions in the energy sector.

Our approach to fighting climate change is to think globally, and act locally. It is our vision to break down the barriers of the electric vehicle market by changing perception of electric vehicles in order to reduce global emissions in the transport sector and improve air quality. A report conducted by Ernst & Young projected the potential positive global impacts of Formula E over the next 25 years (2015-2040): to help sell an additional 77 million electric vehicles worldwide, save four billion barrels of oil and help make savings of 25 billion euros on healthcare.

Our Legacy Programme is our commitment to leave behind a long lasting heritage on sustainability through environmental improvements and creating social awareness. We support charities who share our vision of a sustainable future for all to work together to create a movement towards bettering our cities. To help us think globally, our Official International Foundation Partners, the Prince Albert II of Monaco Foundation and One Drop, allow us to tackle two of the most pressing issues: water and air. So far we have raised \$1.2 million alongside our Foundation Partner's during our Gala Dinners, contributing to our joint project in Guatemala providing safe water access to 35,000 people.

Our local charity partners allow us to engage with local communities across the world to help raise awareness around an issue. This year at the Visa London ePrix we supported StreetGames, whose mission is to bring sports to educate and empower young people from disadvantaged areas across the UK.

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This year, our partner's legacy has seen the growth of The eStory: Undertaking the Challenges of Electro-Mobility, as it continues to explore behind the scenes of the championship and the potential to break down the barriers of the electric vehicle market. Chargemaster have offered 10 electric vehicle charging infrastructure to each host city. By season five we will have doubled the battery capacity, proving the success of the platform for innovation in e-mobility.

We realise the incredible importance of educating people in the hope that we can inspire a change and empower people to make more sustainable choices for the future. Through a combination of innovative urban entertainment, our digital channels and our Legacy Programme we use our platform to highlight important sustainable messages to our audience.

This season has seen a number of exciting collaborations to raise awareness around sustainable messages. The Project Ice was not just a world's first, incredible stunt with the Formula E car running on the Arctic ice cap, but also the grounds for a strong, scientifically backed expedition that will be a starting point for research and studies into the effects of the melting ice caps. During the trip a tracker was placed on an iceberg which had broken away from the ice sheet so that we can track the iceberg's journey and monitor its

behaviour in the open sea. Alongside Southampton University, we hope we can advance the understanding of the effects of climate change on the ice caps and how this is contributing to rising sea levels and the adverse effects of global warming.

In season two we were awarded the winners of the Low Carbon Transport category at the British Renewable Energy Awards, and at the Business Green Leaders Awards we were honoured with Sustainability Team of the Year and Company of the Year. Both of these prestigious events are dedicated to highlighting companies who are making a contribution to sustainability and the transition to a low carbon future.

In the following sustainability report for season two of the FIA Formula E Championship we encourage you to get in touch if you have any questions or would like further information.

[sustainability@fiaformulae.com](mailto:sustainability@fiaformulae.com)



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# THE STORY SO FAR





## THE STORY SO FAR

**It all started with a conversation between Founder & CEO of Formula E, Alejandro Agag and FIA President Jean Todt on the future of motorsport. The discussion quickly turned to how the future of racing had to contain an electric championship. As Alejandro wrote down the conversation on a napkin - the concept of Formula E was born.**

He gathered a team of passionate people to join him on his adventure into the electric era of technology, innovation and entertainment. The Formula E team represents a global vision, with a combination of people from up to 15 different nationalities.

Formula E has built itself on four pillars: of energy, environment, education and entertainment. Driven by a constant desire to challenge conventional thinking, Formula E has redefined motorsport, through the unique fusion of technology, sport, engineering, science, design, music, sustainability and entertainment.

A collaboration of some of the leading companies in and out of motor racing have come together with a vision to experiment, innovate and accelerate sustainable technologies and mobility. The championship has created a technological laboratory and development test bed to break down the barriers of the electric vehicle market.

Our cars showcase the latest technologies. They are charged by a zero per cent emission and one hundred per cent renewable glycerine fuel. We are currently at 60 per cent of our target to have our entire events powered by one hundred per cent renewable energy by 2020. In the eVillage we showcase some of the latest clean technologies, allowing our fans to experience and interact in a new immersive and innovative manner. And when that hunger kicks in, we have plenty of sustainable food options on offer such as locally sourced, vegetarian, vegan, organic and Fairtrade.

So far our journey has taken us to 16 cities reaching out over 194 different broadcast territories. Season one was electrifying, taking us into the heart of some of the world's leading cities streets: Beijing, Buenos Aires, Miami and Monaco, delivering thrilling action on track and an unforgettable rivalry for the victory.

In season two, with growing entertainment and energy both on and off track, the excitement ceases to end.

Formula E is fighting climate change by offering a solution to air pollution in city centre; the electric car. We are pioneering the transition towards smart cities and low carbon economies and transportation by bringing electric vehicles to the forefront of people's minds and making them aware of the huge environmental, social and economic benefits this can have on both people and the planet. Through the championship, our Legacy Programmes and digital channels, we wish to raise awareness and inspire change in sustainable practises, and contribute to reduce global emissions and our impact on the environment.





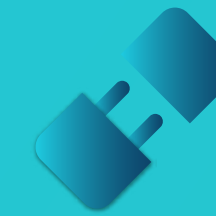
Formula E is disruptive in motorsport. We offer a story about changing a technology to make the world better, to try to make cities less polluted whilst providing a platform for manufacturers to demonstrate that their electric car is better than the rest. Our philosophy is to pioneer and our belief is that the future of sustainable mobility can be expressed in five words:



**Electric:** We want to show how electric vehicles are the future of sustainable transportation, the key to lowering global emissions in the industry and a solution to air pollution in city centres.



**Clean:** We are supporting the transition to low carbon economies, societies and transportation through the advocacy of clean fuels. Our cars are charged by a zero emission and one hundred per cent renewable glycerine fuel and we are committed to RE100, powering the races with one hundred per cent renewable energy by season five.



**Connected:** We wish to drive the future of fully integrated smart cities and utilise technological innovation to enhance our behaviour when driving to encourage and advance technology to further the movement towards integrated smart cities. This can be seen in Qualcomm's Halo wireless charging technology which is integrated into the championship's Qualcomm safety and medical cars.



**Shared:** We race in the heart of cities to bring the event to the people so ticket holders don't need to drive to events and we encourage the use of public transport. From enhanced and cleaner public transport to the shift from individual ownership; we believe the future foresees the growth in electric vehicle sharing as a solution to reduce global emissions.



**Autonomous:** We are constantly pushing the limits of technology in motorsport. The Roborace series will provide a competitive platform for the autonomous driving solutions that are now being developed by many large industrial automotive and technology players as well as top tech universities.

Alejandro Agag, Founder & CEO of Formula E:

*"The future of transport and mobility is electric, autonomous and connected. This is a revolution. Formula E is going to shape the way we are going to drive our cars in the future."*

To see the full video of Alejandro Agag speaking in the video for Faraday Future: Innovating the Future, please see the annexes of the report.



# IMPROVING AIR QUALITY





# OUR VISION AND MISSION

## VISION

The FIA Formula E Championship's vision is to be the world's first fully-electric single-seater racing series, bringing electric vehicles to city centres using innovative technology, and discovering solutions for climate change to better the environment we live in.

## MISSION

We are the electric street racing series. Delivering entertainment on four continents, we reach a broad audience in an innovative way, inspiring generations to adopt sustainable mobility.

Through the Formula E Championship, we aim to accelerate innovation in electric vehicle technology, stimulate governments to develop infrastructure and showcase how electric vehicles will revolutionise everyday transportation. As a team of passionate dreamers we work together as ambassadors of the Formula E values with the belief that perceptions will change for the better.



## OUR VALUES IN SUSTAINABILITY



**Leadership:** The FIA Formula E Championship aims to be the leaders in electric street racing and the pioneers of change towards a more sustainable future by showing the world that clean technologies, especially electric vehicles, are the solution.



**Legacy:** Formula E is disruptive in the sporting industry. We endeavour to lower our footprint in all areas of the championships activities and we aspire to leave behind a positive heritage of sustainability in all of the cities in which we race... and beyond!



**Inclusivity:** We reach out to a new generation of fans through our digital platforms and accessibility at events - never before can you get so close to the action.



**Transparency:** In order to pioneer positive change, we lead by example.



**Collaboration:** We partner with many of the leading companies in the world. Together we are combating transportation issues, developing e-mobility solutions and creating initiatives to lower cities' carbon footprints. Our partners believed from the start the mission that Formula E has set out to achieve and without their backing the project would not have reached the heights it has.





# OUR REASON TO BE

Throughout the previous two seasons of the FIA Formula E Championship, we have already seen major technological advancements in the creation of electric vehicles and sales in electric cars that we race in.

*We are the electric street racing series and the only sport which inherently promotes sustainability*

**WHAT DO WE DO?**

We are challenging the perception of electric vehicles by creating a racing series that pushes the technology to the limits whilst creating thrilling racing and rivalries.

**HOW WE DO IT?**

An inclusive and engaging sport that drives change for a brighter future through technological acceleration and innovation.

**WHY WE DO IT?**

We are challenging technology in sport for SUSTAINABILITY. We are fighting climate change by offering a solution to air pollution in city centres, the electric car.

*Our three key pillars:*

- 1** *Real Street Rivalries*
- 2** *Raw Electric Performance*
- 3** *Clean Technologies Within Reach*





## SUSTAINABILITY IN OUR DNA

**Energy:** Our cars are powered by a zero emission and one hundred per cent renewable fuel from specialised glycerine generators.

**Tyres:** Our unique Michelin tyres are hybrids, suitable for all weather conditions, last the entire race, and are all recycled either for energetic recovery or material recycling to further reduce the impact on the environment.

**Tracks:** Formula E is the electric street racing series, racing on street circuits in the heart of some of the world's most thrilling cities such as Mexico, Paris, Berlin, New York and Montreal.

**Calendar:** The FIA Formula E Championship calendar is designed to keep our carbon footprint as low as possible. This means that freight travels from region to region by the most sustainable method, to optimise the use of boats or road to transport our freight, thanks to our Official Logistics Partner, DHL.





# SEASON TWO CALENDAR





# OUR STAKEHOLDERS





## PARTNERS

### Julius Bär

Julius Baer has been our Official Global Partner since the very first race. The Bank, with its visionary approach, shares many values with Formula E such as innovation, sustainability, and a forward-looking, pioneering spirit.

Julius Baer is a signatory of the UN supported Principles for Responsible Investment (PRI) and a member of the Swiss Sustainable Finance Association. The Bank is committed to incorporating ESG (Environmental, Social and Corporate Government) metrics into its investment decision-making and ownership practices. Julius Baer's next generation philosophy revolves around an exploration of the global megatrends set to affect our lives in years to come and it seeks out sustainable growth opportunities based on those megatrends.

The Julius Baer Group operates as a carbon-neutral company and aims to minimize the company's CO<sub>2</sub> footprint. In addition, it is a member of the Swiss Climate Foundation. In order to raise awareness of the important environmental messages key to the protection of the planet, Julius Baer has commissioned a special iceberg livery for the Formula E show car to celebrate Earth Day and they have supported Project Ice. You can read Julius Baer's corporate sustainability report for further information.

[Julius Baer Corporate Sustainability >>](#)



Our Official Tyre Partner Michelin supplied the championship with unique and specially developed high quality tyres, which are suitable in both wet and dry conditions, lasting the whole race day. Moreover, they are all recycled either for energetic recovery or material recycling to further reduce the impact on the environment. In the run up to season three, the upgrade of the Michelin 18 inch tyres has been praised by the drivers at Donington Park this summer during pre-season testing. The tyres have been redesigned so that they are lighter, weighing five kilograms less per set of tyres - as well as being more energy efficient.

Michelin, partnering with the FIA, support the Formula E Legacy Programme with their commitment to raise awareness around road safety. The 'Beyond the Driving Test' campaign in the USA, improves safety of teen driver's tyre maintenance. The Michelin Challenge Bibendum brings together political, industry, scientific, and media representatives to discuss the challenges of, and solutions for, sustainable mobility.

Michelin has very strong corporate social responsibility and sustainable values. They are a signatory to the UN Global Compact and a member of the World Business Council for Sustainable Development. They are also a leading actor of PPMC which is the union



CLICK ON OUR PARTNER'S LOGO TO GO TO THEIR WEBSITE

of SLoCaT (Partnership on Sustainable Low Carbon Transport which incorporates the Transport branches of the UN agencies) and the Michelin Challenge Bibendum. The goal of PPMC is to construct the carbon reduction roadmap for the transport sector.

Michelin is dedicated to enhancing its clients' mobility, sustainably and has an annual research and development budget of close to €640 million.

[Michelin sustainable mobility>>](#)





Qualcomm Technologies, Inc. (QTI) is an Official Technology and Founding Partner of FIA Formula E Championship. As a leader in wireless technology, QTI is supporting Formula E in their quest to incorporate exciting new and innovative technologies into the race series.

Qualcomm Halo™ wireless electric vehicle charging systems are integrated into the Official Qualcomm Safety Cars. Enabling these key support vehicles to be charged wirelessly ensures they remain fully charged at all times, ready to be rapidly deployed in case of an emergency.

Qualcomm defines sustainability as a strategy that drives long-term growth and profitability. This means including environmental, social and corporate governance issues in business decisions as they relate to the company's key spheres of influence: its workplace, its supply chain, local communities, the technology industry and the public policy realm. Qualcomm focuses its resources, programmes and reporting on its six priority areas: transformative technology, sustainable product design, privacy and security, STEM education, inclusion and diversity and ethical governance.

Qualcomm is a signatory to the Climate Declaration and a participant in the American Business Act on Climate Pledge, and the company has been participating in the United Nations Framework Convention on Climate Change meetings since 2009. Developing transformative solutions to global problems through the use of technology is at the core of what Qualcomm does, and its products are in many ways helping to enhance quality of life around the world.

[Qualcomm sustainability](#)>>







DHL, our Official Logistics Partner, helped to develop a sustainable race calendar and provide fast, efficient and environmentally conscious transportation services to the championship race cars, medical and rescue cars, spare parts and equipment. DHL are devoted to the research and development of sustainable logistics and partaking in the Formula E Partner's Legacy Programme, such as leading the eSTORY. On our recent trip to the icecaps in Greenland to raise awareness around global warming, we trusted in DHL to establish the most sustainable transport methods and execution, to keep the footprint of the project as small as possible.

DHL has exemplar sustainable credentials. In 2015 alone they received 221 awards from 73 different countries and entities, they are listed in the Dow Jones Sustainability Indices and their Sustainable Analytics ranked third amongst 134 companies and their environmental management system is ISO certified in many countries, including ISO 9001, ISO 14001, ISO 13485 and TS 16949. They have a very strong corporate social responsibility, their Living Responsibly fund includes their GoGreen environmental protection, GoHelp disaster management and GoTeach education schemes. DHL have their own Climate Protection Projects for carbon offsetting bringing not only global environmental benefits but also strong social benefits to local communities. They have their own employee volunteer programme, encouraging their employees to give their time and valuable skills back to the community.



Being one of the first partners to commit to the Formula E adventure in early 2013. Swiss Avant Garde Watchmaker TAG Heuer has believed in the future of the first FIA Championship for single-seater full-electric vehicles since day one.

As the Official TimeKeeper and Founding Partner for the pioneering competition, TAG Heuer has also developed sustainability programmes, proud to encourage the promotion for clean energy on a daily basis, implementing innovative solutions for the preservation of its magnificent environment in Switzerland where the brand produces its watches. Signing of a long-term agreement with the Swiss Energy Agency to reduce electricity and natural gas consumption, minimise emissions by purchasing one hundred per cent Swiss hydroelectric power, installation of solar panels on roofs, introduction of a waste reduction/recycling programme, setting up mobility plan for employees including shuttle services, contribution to yearly pass for public transport, and carpooling. A wide variety of solutions have been put in place and further measures are being developed for implementation.





BMW i Our Official Vehicle Partner, supplies the BMW i8's for the championship safety cars, the all-electric BMW i3's medical and race control cars as well as the X5 xDrive40e plug-in hybrid as rescue car. BMW i has been the leader in the Dow Jones Sustainability Index nine times since 2005, making them the most sustainable company in the automotive industry. An impressive 95 per cent of the materials used to produce a BMW i3 can be recycled, and one hundred per cent of the power used by the BMW i manufacturing plant in Leipzig is obtained from renewable energy resources.

[BMW sustainability >>](#)



Our Official Payment Partner and Title Sponsor for the 2016 Paris and London ePrix is committed to maximising please its positive impact on society including through sustainability. By striving to reduce energy and water usage and increase waste diversion to landfills, Visa is lowering its environmental impact while increasing efficiencies in its business. Through working to be intelligent users of power, Visa has achieved a 43 per cent reduction in greenhouse gas emissions per revenue since 2009. The company also has achieved environmental certification status of many of its offices and data centres, including ISO14001 certification for the company's environmental management system in Europe.

[Visa corporate responsibility >>](#)



Maison Mumm, our Official Champagne Partner, has been pushing the limits in the pursuit of victory through innovation in sport and adventure since 1904, when they supported Baptiste Charcot in his explorations of Antarctica. From 1904 to 2016, Mumm also supported our trip to Greenland for our Project Ice, raising awareness around the melting ice caps and climate change. A proud history of accompanying winners on the podium, Mumm play a central role in the moment of victory and celebration. They have redesigned their Formula E champagne bottles so that they are lighter, easier to transport, and as a result more fuel efficient so more sustainable for the environment.





CHARGE

Charge, the British automotive technology company, is the championship's Official Electric Truck Partner. The company produces a range of electric autonomous-ready trucks that are revolutionising the way goods are transported in towns and cities around the world. Charge are making trucks the way they should be - affordable, elegant, quiet, clean and safe.

Charge's smart electric trucks will be used for both the driver's parade as well as on and off track logistics at Formula E events.

Denis Sverdlov, CEO of Charge, said:

*"We are proud to partner with Formula E, everything they are doing is aligned with our company mission and values. The truck and bus industry has stood still for many years, we are creating a highly efficient, affordable, environmentally superlative truck offering what we believe will transform major cities around the world."*

*"This partnership allows us to work closely with leading logistics companies like DHL where we can showcase our technology and the opportunity for every logistics company to revolutionise their fleets, resulting in huge savings to their businesses and improving their social and environmental impact. We believe the balance of our cost efficiency, unique hardware and software capabilities make our trucks unbeatable."*



Leaders in renewable energy solutions and committed to researching and developing new environmentally friendly technologies, Enel will help us to optimise our clean energy generation, distribution, storage and management. A transportable mini-grid will allow no pressure on the cities electrical grid and innovative storage systems will allow us to distribute the energy from our glycerine generators as needed. Enel will identify the most suitable carbon offsetting projects within their worldwide portfolio to offset the championships season three and four footprint. Formula E will become the first carbon neutral championship in history!

Sustainability is in the very nature of Enel, and the extensive generation of energy from the sun, water, wind and the Earth's heat favours the self-sufficiency of countries and supports environmental protection. In 2013 alone, the renewable energy generation from Enel saved over 16 million tonnes of CO<sub>2</sub>.

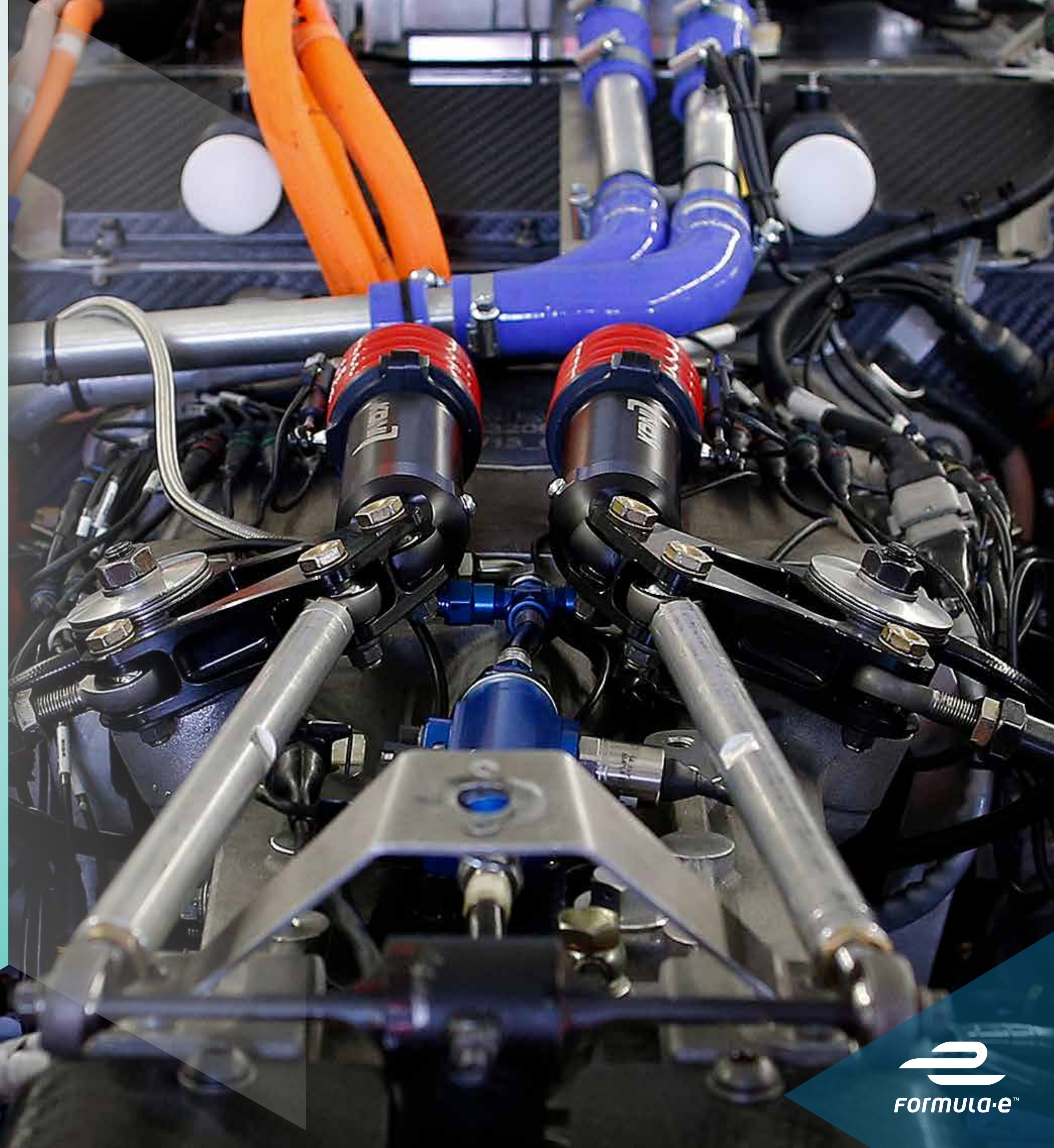
[The sustainable vision at Enel >>](#)



## SUPPLIERS

In season one all of the teams were supplied with an identical single-seater racing car from Spark Racing Technology. Dallara, constructed the lightweight and resistant monocoque chassis out of aluminium and carbon fibre. McLaren Electronics Systems provided the electric powertrain, with Williams Advanced Engineering supplying the batteries with a 200kW producing capacity. Hewland introduced the five speed paddle shift sequential gearbox, and Michelin delivered tyres offering optimum performance in all weather conditions.

All these elements have been integrated by Renault, a leader in electric vehicles and an expert in motorsport thanks to their experience in Renault Sport Technologies and Renault Sport F1 programmes. In season two, seven manufacturers developed their own unique powertrain technology.





## WILLIAMS

Williams Advanced Engineering dedicated invaluable work on the powertrain, exclusively supplied the Formula E batteries, and is currently engaged in research and development surrounding battery longevity. In season two, thanks to the technological platform provided by the championship, the batteries were operating with a staggering extra 25 per cent power capacity than they were originally designed for. Over the course of season two Williams have been able to fully test and validate their cooling systems, charge retention and module design, and be able to apply this knowledge and testing to their products outside of Formula E.

In season three there have been improvements on the reliability, maintainability and weight of the batteries. By season five the aim is for each driver to have one car per race, meaning the battery life will be doubled from the first season!



Renault made major contributions to the creation of the Formula E car in terms of chassis design, integration, safety and performance optimisation alongside Spark Racing Technology. The Spark-Renault SRT\_01E was the first Formula E car to be homologated by the FIA. Renault is considered as a pioneer in affordable electric vehicles and their development, ranking number one on the European electric vehicle market. The technologies developed in the championship will spin off improvements in electric vehicle powertrain performance and battery life for road cars.

The Renault e.dams team was created from the passion and necessity to develop a more affordable, sustainable and environmentally friendly approach to motorsport.



A British company Aquafuel Research Ltd have built mobile and clean generators which can be packed inside a shipping container and freighted to each race. The renewable energy generators run on glycerine, a clean fuel in terms of emissions as it has no carbon, low particulate and NOx emissions. The fuel is also clean in terms of physical properties because of its lubricity and its soot/particulates-free output. This latest fuel has a positive effect on the injection system parts and the exhaust of the car. The pollution reduction of these engines compared to a standard production diesel engine is significant: in just one hour, nearly half a tonne



of carbon emissions and half a kilogram of poisonous NOx emissions are avoided. Formula E offers a platform for Aquafuel to continue to find meaningful commercial applications of this revolutionary fuel.

Chargemaster, our Official Charging Infrastructure Supplier and the UK's leading supplier of electric vehicle charging points, have supplied the wireless charging facilities for the championship's fleet of electric vehicle course cars, supplied by BMW i. In addition, Chargemaster have offered electric vehicle charging stations to each of the hosting cities of season two as part of the Formula E Legacy Programme.



# TEAMS

The FIA Formula E Championship has 10 teams with two drivers, who must make a mandatory car swap during the race.

Formula E has attracted some of the biggest names in motorsport - from the drivers, team owners, manufacturers and partners.

The championship has one of the strongest line-up of drivers in any discipline in motorsport. Sebastien Buemi, the current Formula E champion, has raced in Formula 1 and won the championship in the LMP1 class of the FIA World Endurance Championship (WEC).

The championship also has Lucas di Grassi, Nico Prost, Sam Bird, Nelson Piquet Jr, Jean-Eric Vergne and Nick Heidfeld vying for the top spot on the podium.

Sustainability is part of the ethos of the championship and it is key to our teams. Most of the teams came from other motorsport disciplines as they were attracted to a new and sustainable championship. Going further, three teams have been on board with us for FIA Institute processes.

Many of the team owners, manufacturers and partners have a shared vision and values similar to Formula E. Sir Richard Branson, founder of the Virgin Group, is directly involved with the DS Virgin Racing team, and Alain Prost, four-time Formula 1 world champion, is co-founder and team principal of two-time champions Renault e.dams.

Formula E has welcomed manufacturers such as Citroen-DS, Audi, Mahindra and Jaguar, and new futuristic brands like Faraday Future, NextEV, or the likes of major component manufacturers like Schaeffler and ZF.

Also manufacturers such as Audi, BMW and Mercedes have also committed their future to the series, or taken an option to enter in season five.







Mahindra are already a force to be reckoned with in the development and production of electric vehicles through its Mahindra Reva Company. In season two, Mahindra has become a manufacturer of its own, constructing their own powertrain in season two with instant results with Nick Heidfeld getting third at the HKT Hong Kong ePrix.

Mahindra operate in key cross industries that drive economic growth, leading the way in tractors, utility vehicles, information technology, and vacation ownership. In addition they have a strong presence in the agribusiness, aerospace, components, consulting services, defence, energy, financial services, industrial equipment, logistics, real estate, steel, commercial vehicles and two wheeler industries.

In 2012, Mahindra were featured on Forbes as one of the biggest and most powerful companies in the world, and in 2013 The Financial Times awarded them with the 'Boldness in Business' title. Mahindra's 'Race to Road' programme shows their development towards creating an accessible and sustainable electric vehicle market, developing technologies on the racetrack which will have a direct function in road cars in the coming future.

This season the Mahindra team have achieved accreditation in the FIA institute's Sustainability Programme, after proving its environmental credentials.



After being the title sponsor for the Long Beach ePrix in season two, Faraday Future joined Dragon Racing to enhance their electric vehicle programme.

Their vision is to utilise the knowledge shared across the Formula E platform to develop their technologies further into uncharted territories. In the upcoming seasons you can look out for the progress of powertrain hardware including experiments to integrate the FF Echelon Inverter into their own productions.

The Faraday Future FFZero1 is not only a concept car, but a car of concepts that is intuitively adaptable to its drivers individual driving style. The car is adaptive, seamless, kitted out with ultra technological gadgets, and has a motor in each wheel.



Panasonic Jaguar Racing have joined the FIA Formula E Championship for season three. Jaguar's strong reputation to deliver on design, technology and performance has been made within some of the most challenging racing series in the world in the past, they now turn their attention to the future of racing.

Panasonic Automotive Systems Europe are leaders in producing high performance car technologies. They are committed to environmental sustainability, innovation, reliability and excellence.

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*"We're back to electrify the track. To excite, to thrill, while leading the charge for our electric future. Race-to-road is in our blood and on the globetrotting stage of Formula E, we'll push our team, our technology and our wildest ambitions to the absolute limits"*

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Virgin is a brand strongly associated with expertise and innovation. They are passionate about developing pioneering technologies. For season two, Virgin partnered with the luxury car brand DS Automobiles to become the DS Virgin Racing Formula E Team. Committed to accelerating technological advancements, DS Performance has been created to charge the way in research and development which supports the search for a more economical, environmentally sustainable vehicles whilst building off the elegance, quality and craftsmanship that defines their fleets.

[Watch on Youtube >>](#)



Another new addition to the FIA Formula E Championship is Techeetah, owned by SECA a Chinese sports marketing and management giant. For season three the team are using Renault e.dams' powertrain to gain a head start in the championship.



Audi, a renowned German automotive manufacturer has joined forces with Schaeffler, a globally active automotive and industrial supplier, and ABT, experts in engine technology, aerodynamics, sports wheels, exhaust systems, suspension and brakes. Together they have developed the electric motor, focusing on achieving maximum efficiency, high reliability and optimum thermal management system with help from a modified cooling system. A new gearbox designed by Hewland matches the motor and is more compact than before, helping to achieve the objective of minimising the number of gear shifts per lap.



A joint venture between two of the biggest names in motorsport; Jean-Paul Driot, founder of top single-seater team DAMS and four-time Formula 1 champion Alain Prost. Renault has long understood the value of motorsport, being active in multiple racing disciplines to put their technologies to the ultimate test.

For season two when the championship opened up its regulations on the development of the powertrain, Renault increased its involvement in the team to produce a bespoke motor in a bid to retain the championship title and accelerate race car technologies.

**MS AMLIN**  
**ANDRETTI**

Engaged in developing new race car technologies for season three with a focus on the powertrain, eMotor, the inverter, the control systems and a more advanced transmission system.



# OUR SUSTAINABLE NETWORKS

## Quantis

Quantis, our Life Cycle Assessment consultants are globally recognised experts in sustainability, Life Cycle Assessment consulting, IT, software, training and research.

Quantis provide us with reliable scientific data based on the life cycle approach to holistically understand our impacts on people and the planet. They assist Formula E in setting and achieving our sustainability goals, creating value and recognition for measuring our impacts and for taking decisive action to reduce our negative impacts as much as possible.

### SUSTAINABLE EVENTS LTD

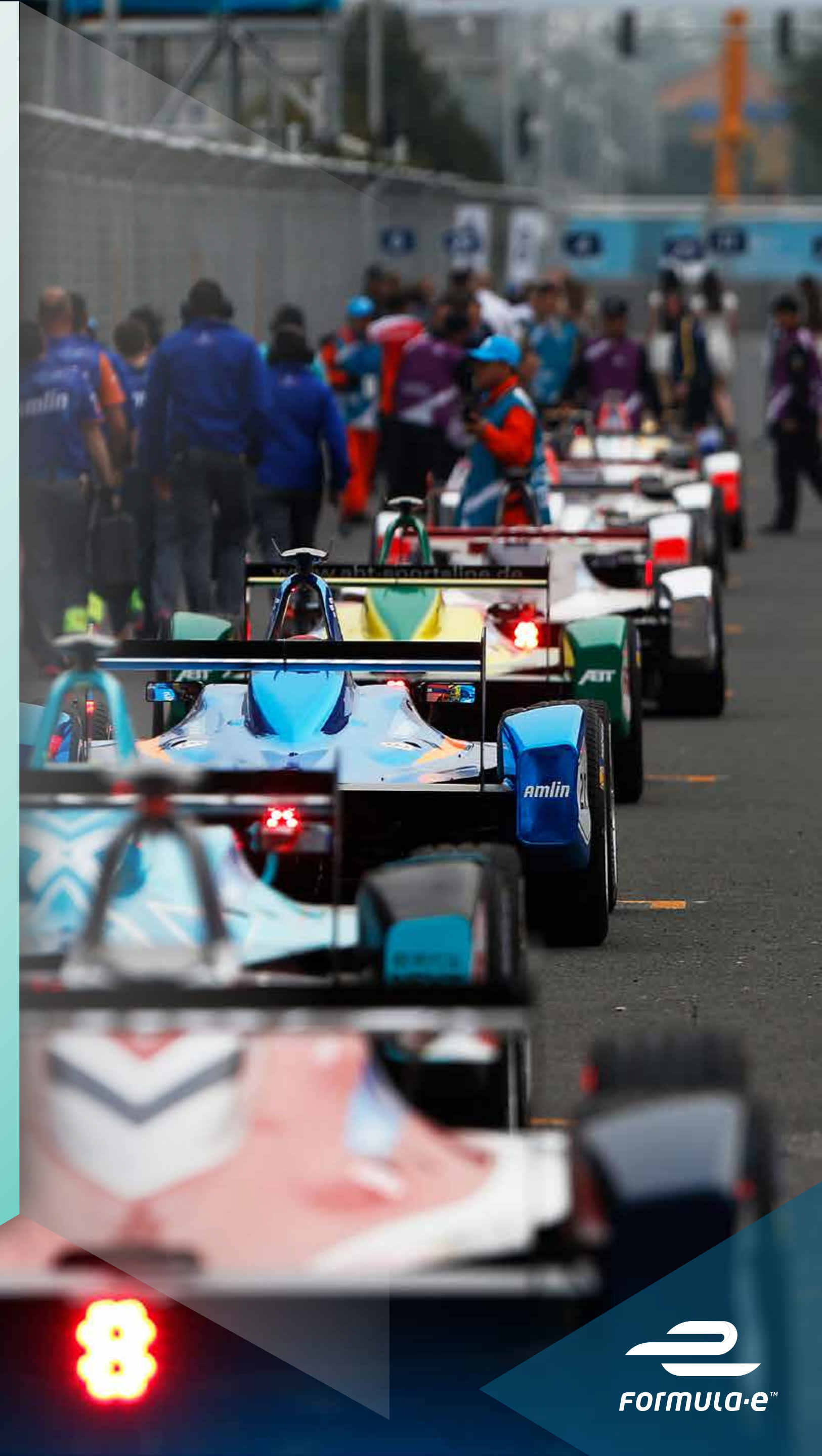
Sustainable Events Ltd. are mentoring us on our ISO 20121 journey by supporting, educating and inspiring the future of sustainability in the events industry. Positive Impact is a part of Sustainable events Ltd, they specialise in sustainability storytelling and education within the events industry. They believe that the events industry is one of the most important industries in the world as it is used to put a spotlight on messages and global challenges to inspire change and therefore it is the most important place to establish a high level of sustainable practise.

## RE 100

RE100 is a global initiative lead by The Climate Group to support influential companies committed to one hundred per cent renewable power. Formula E is committed to make our entire business operations one hundred per cent renewable in the future, and we are currently 50-60 per cent towards our goals of one hundred per cent at the events.

## GREEN SPORTS ALLIANCE

A prestigious network of sports leagues, teams, venues, partners and fans. The Green Sport Alliance is dedicated to promoting the development of better practise and solutions to environmental challenges within the sporting industry.





## INVESTORS



Liberty Global plc, and Discovery Communications Inc. joined the Formula E team in our first season. The arrival of these two global media companies represented an important step in the long-term development of the series and confirmed its potential on the motorsport scene. Their strategic vision and strong financial backing will continue to provide stability as well as creating a solid base from which the company can expand in the future.

**Chairman of Formula E and Chief Commercial Officer of Liberty Global Content, Simon Freer said,**

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*"Sustainability plays a central role to both Formula E and Liberty Global's values and business strategies. Together we are empowering positive change through our global platforms and shared vision of technology, connectivity and entertainment. This is a great match and we are delighted to be supporting the future of Formula E."*

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Our other investors include our partner, Qualcomm. As well as other corporations such as Causeway Media Company.





# HOST CITIES

In the run up to each ePrix, we have been researching sustainable credential reports for each of our hosting cities in order to give us a deeper understanding of the environmental governance and practise of the cities. This allows us to know the areas in which we can have the greatest positive impact in our engagement with the community and establishing where we can be most effective in breaking down the barriers of the electric vehicle market.



## BEIJING

### Air Quality Index:

- UNHEALTHY, 114 on a scale of 500

### Renewable Energy:

- Currently 10 per cent of total energy mix, target of 20 per cent by 2020, reducing CO<sub>2</sub> emissions by a further 1.5 billion tonnes per annum.

### Sustainable Transportation:

- China is the main global electric vehicle market beating the USA in 2015 and has the strongest current deployment of electric two-wheelers and electric buses.
- They have invested 37 million yuan (\$5.6 billion) into clean energy vehicles over the past five years.

### Sustainable Development:

- China plans to invest £180 billion to fight air pollution over the next five years.



## PUNTA DEL ESTE

### Air Quality Index:

- GOOD, 30 on a scale of one hundred

### Renewable Energy:

- Currently 84 per cent of electricity comes from renewable energy sources
- Wind is the highest percentage of renewable energy in Uruguay and worldwide.

### Sustainable Transportation:

- There is definitely room for growth. The Mayor of Montevideo has approved incentives to promote the use of electric vehicles: free parking, no tolls on roads or bridges and no registration for three years.

### Sustainable Development:

- The Energy Minister Ramón Méndez said that they had immediately accepted the offer made by Formula E to host the race in Punta del Este as it 'recognised the potential to encourage sustainable urban mobility.'







## PUTRAJAYA

### Air Quality Index:

- MODERATE, 53 on a scale of 500

### Renewable Energy:

- Currently one per cent of the total energy mix, coming mainly from hydro power.
- The Renewable Energy Act passed in 2011 states that by 2020, renewable energy is to make up 11 per cent of the total energy mix.

### Sustainable Transportation:

- The transport sector has the highest emissions as it is mainly dominated by private transportation (70 per cent).
- The emphasis for the development and promotion of clean transportation is highlighted in both the National Automotive Policy and the National Green Technology Policy.
- An efficient and connected public transport system powered by smart networks is the vision for Putrajaya.

### Sustainable Development:

- During COP15 in Copenhagen, the Malaysian Prime Minister voiced his commitment to reduce the countries emissions by 40 per cent by 2020 compared to 2005.
- Greenhouse gas emissions from 2007 to 2025 was estimated to increase seven times under business as usual. With the introduction of low-carbon counter measures they estimated they could lower emissions by 60 per cent by 2025.
- The goal for Putrajaya Green City 2025 (PGC2025) are outlined in three themes. "Low-carbon Putrajaya" for climate change mitigation, "Cooler Putrajaya" for mitigating urban heat environment, and "3R Putrajaya" for recycle-based society.
- Defined by cutting edge smart buildings, reduction of fossil fuel vehicles and the increased use of intergrated urban planning tools.
- The existing built environment will be retrofitted to achieve 40 per cent reduction in carbon emissions.



## MEXICO CITY

### Air Quality Index:

- UNHEALTHY, 151-168 on a scale of 500 due to geographical disadvantages.
- ProAire Programme has significantly cut CO<sub>2</sub> emissions over the past 20 years, and ambitious climate projects have been awarded: 2013 City Climate Leadership Award for Air Quality.

### Renewable Energy:

- Currently 26 per cent. The solar and wind sectors have seen a triple digit growth rate over the past decade.
- Mexico is the world's fourth largest geothermal producer.
- In 2012, Mexico City passed an ambitious Climate Change Legislation committing to reduce greenhouse gases by 30 per cent in 2020 (8-10 million tonnes of CO<sub>2</sub>) and 50 per cent by 2050.

### Sustainable Transportation:

- Winners of the 2013 Sustainable Transport Award.
- An extensive bike system Ecobici has 6,500 bikes in action and in the first three years of operations saved 232 tonnes of CO<sub>2</sub> equivalents.

### Sustainable Development:

- In 2007 a 15-year cross disciplinary Plan Verde was drawn up to reduce emissions, waste and increase mobility and sanitation.
- \$1.2million is spent a year for environmental improvements, which is eight per cent of the city's budget.





## BUENOS AIRES

### Air Quality Index:

- GOOD, 42 on a scale of one hundred

### Renewable Energy:

- Currently one per cent. In 2006 Law 26 laid down that renewable energy was an important matter of national interest and set a target of reaching eight per cent by 2016, and 20 per cent by 2020.

### Sustainable Transportation:

- In 2014, Buenos Aires won the Sustainable Transport Award for their success in promoting urban mobility, reducing emissions and improving safety.

### Sustainable Development:

- In 2011 an ambitious Climate Change Act was passed.
- The Green Schools Programme provides an environmental education and awareness to children.



## LONG BEACH

### Air Quality Index:

- GOOD, 7-50 on a scale of 500

### Renewable Energy:

- The Clean Energy and Pollution Reduction Act of 2015 set a goal of increasing California's renewable energy resources to 33 per cent by 2020 and 50 per cent by 2030.
- They have invested in innovative energy solutions such as solar trees and solar bins.

### Sustainable Transportation:

- Long Beach won the City of US Department of Energy's Green Fleet Awards as the number one greenest fleets in North America, in 2016 18 per cent of the vehicle fleet will switch to renewable energy making it one of the greenest fleets in the USA.
- Long Beach was voted the eighth most walkable city in the USA. The city has various programmes to encourage a sustainable lifestyle: Bike to Work Day, City Bike Share Programme and Car Free Fridays.

### Sustainable Development:

- Long Beach was voted in the top 10 most polluted cities in America as a result of being home to the second busiest container port and one of the largest shipping ports in the world.
- In 2006, The Clean Air Action Plan, lowered diesel particulates by a staggering 81 per cent, nitrogen oxide levels by 54 per cent and sulphur oxides by 88 per cent.
- The ports Clean Truck's Programme has reduced pollution from harbour trucks by more than 90 per cent since 2012.





## PARIS

### Air Quality Index:

- GOOD, 26-50 on a scale of 500

### Renewable Energy:

- Currently 19.5 per cent of national electricity is generated by renewable energy. France is the EU's second largest producer and consumer of renewable energy. New targets require 40 per cent of national electricity from renewable energy by 2030.

### Sustainable Transportation:

- There are currently over 75,000 electric vehicles registered in France.
- Home to the world's twelfth largest bike sharing programme, Vélib. It has generated more than 274,000 annual subscribers, more than 200 million journeys which equates to the travelling distance of five return trips from Earth to Mars and an average of one rental per second.

### Sustainable Development:

- COP21, the UN Conference hosted in Paris, from November 30 - December 11 last year, brought together 190 countries to formalise a legally binding universal agreement to effectively fight climate change and accelerate the transition to resilient, low carbon societies and economies.
- The global electric mobility initiative in conjunction with the Lima-Paris Agenda aims to make 20 per cent of the vehicles on the road non-polluting by 2030, incentivise the uptake of electric vehicles and renew the public fleet with clean vehicles.
- The first car free day reduced pollution by 50 per cent on the Champs Élysées.



## LONDON

### Air Quality Index:

- GOOD, 33-70 out of 500

### Renewable Energy:

- 25 per cent, a five per cent increase from 2014

### Sustainable Transportation:

- The Ultra Low Emission Vehicle Delivery Plan was launched on July 22 2015.
- The Mayor's Air Quality Strategy commits to working with partners to put 100,000 electric vehicles on London's streets by 2020.
- The UK Government offers a Plug-in Car Grant of 25 per cent off the cost of a car (up to £5,000) and a Plug-in Van Grant of up to 20 per cent off the cost of a van (up to £8,000). Currently there is no VED (vehicle tax) to pay on electric vehicles.
- There has been a 22 per cent increase in the number of electric vehicles registered in 2015.

### Sustainable Development:

- London's target is to achieve a 40 per cent reduction in total NOx emissions and 50 per cent in total PM10 emissions by 2017/18 against 2005/06 levels.
- The Department of Energy and Climate Change's (DECC's) business plan sets out a long term transition to secure, affordable, low carbon energy on the way to an 80 per cent cut in greenhouse gas emissions by 2050.





## BERLIN

### Air Quality Index:

- GOOD, 46 on a scale of 500

### Renewable Energy:

- Currently 33 per cent.
- Since 2004 clean energy investments have increased by 122 per cent and jobs in the renewable energy sector jobs have more than doubled.
- A German Village called Wildpoldsried produced 321 per cent more renewable energy than it needed with a population of only 2,600 it generated four million euros in annual revenue by selling it back to the national grid.

### Sustainable Transportation:

- 12 per cent of journeys in Berlin are made on a bike. To many Berliners a 'chic bike' is a far higher status symbol than owning a car.
- The city has the option of electric buses, buses equipped with hydrogen power internal combustion engines and the trams are built on special lawn tracks to reduce air and noise pollution.
- Car sharing is very easy and accessible and there are many other environmentally friendly ways to travel around such as solar boats.

### Sustainable Development:

- Berlin has ambitious environmental protection goals to achieve climate neutrality by 2050.
- Energiewende was the national strategy to reduce Germany's overall energy consumption, create an extra 500,000 jobs by 2020 and reach a total of 80 per cent of renewable energy by 2020.
- Berlin has the first aquaponics vertical micro-farms in supermarkets, cutting on transport and water and increasing energy efficiency and quality of the product.
- The Eurf Campus in Schöneberg is a modern 'symbol of the energy transition in Germany and for companies in the areas of sustainability, environmental protection and mobility.'



# A RESPONSIBLE BUSINESS





## FROM THE INSIDE, OUT

We constantly record our habits with the aim to reduce our office's impact in terms of waste, electricity and paper consumption.

**WASTE:** We have successfully implemented a three bin policy to segregate general waste, food waste and recycling. In the office we have a 'zero waste to landfill' policy. On average, we produce around one bin of food waste, two bins of recycling and two bins of general waste averaging 16kg of waste each day. Once our general waste has left the Formula E building it is transported by barge along the Thames to an energy-from-waste facility which provides renewable energy back onto the grid. The plant in South East London generates enough electricity to power 48,000 homes.

We gave all of our season two media tabards to a local school near to Donington Park Circuit, Castle Donington College, for their PE Department to use for sports activities. We also recycle all of our old IT equipment and uniforms.

**ELECTRICITY:** On average we use around 4,500 kWh of electricity each month. We have a hot tap in the office which saves energy and costs. The cost of the hot tap is approximately one penny per litre according to Quooker, and the price to boil a kettle (on average holds 1.5 litres) is around 2.5p per boil, according to npower. Hot taps can save

around 100 litres of water a year and save on the intensive energy process to boil the kettle.

**PAPER:** Measuring from September 2015 to September 2016, we have used a total of 96,000 sheets of paper in our HQ. All of our printers are set to grayscale and double sided. We like to remind our employees to use electronic versions whenever possible.

**WELL BEING:** The Formula E HQ in London receives a bi-weekly delivery of fruit to help keep our employees' healthy. Our bi-weekly delivery of fruit from the Fruitful Office has contributed to the planting of guava and papaya trees in Malawi. In collaboration with Ripple Africa, the Fruitful Office over three periods this year have donated one fruit tree for every basket of fruit delivered to our office. So far our healthy habits have planted 214 fruit trees in Malawi, contributing to the livelihood of the community.

Through our partnership with Cool Earth, Formula E's purchase of Cool Earth coffee is protecting 94 trees in Ashaninka in Peru and has saved 102 tonnes of CO<sub>2</sub>. Cool Earth charity work alongside indigenous villages to end the destruction of the rainforests by putting the people back in control of their forest.





# MEASURING OUR IMPACT TO IDENTIFY OUR KEY IMPACTING AREAS

Formula E commissioned a Life Cycle Assessment with consulting group, Quantis for the second season. For each ePrix, data was collected in order to assess Formula E's footprint not only in terms of carbon but also in regards to water, ecosystems quality, natural resources and human health.

## STAKEHOLDERS



Athletes



Organisers



Spectators, VIP



Media



Volunteers



Security

## INFRASTRUCTURE AND SERVICES



Infrastructure



Transport



Accommodation



Catering



Goodies



Services



Carbon footprint



Water footprint



Ecosystems quality



Natural resources



Human Health



Life cycle thinking takes a holistic view of the production of an ePrix and assesses its impacts on the environment throughout its entire life cycle. At each life cycle stage, there is resource and energy consumption as well as pollution to the natural environment that creates impacts throughout.

The benefit of using this approach is that negative impacts are minimised while avoiding the transfer of these impacts from one life cycle stage to another. This is beneficial for crafting and implementing successful sustainability strategies based on accurate information.

Life Cycle Assessment requires the development and implementation of solid methodologies and processes thanks to the expertise of a scientific team:

- Collecting inventory data: after each ePrix, we are collecting data on Formula E management, logistics, and on the organisation of the race itself.
- Measuring environmental impacts: Quantis is able to measure our key impacting areas and give us the explanations why, so that we can work on improving them.

In the inaugural season, our total footprint was calculated at 25,000 tCO<sub>2</sub>-eq. This number equates to 110 flights from London to Chicago with 320 passengers aboard, or 3,400 trips around the earth by car. Our main impacting areas were freight, business travel and temporary infrastructure for the event, mainly energy. The Life Cycle Assessment allowed us to pinpoint these impacting areas and acts as a benchmark for where we need to be continually improving and reducing our emissions where possible.

This season, our footprint has been calculated at 12,000 tCO<sub>2</sub>-eq - that is half of the amount of season one. This number is equivalent to 60 transatlantic flights from Paris to New York with 320 passengers aboard, or 1,600 trips around the earth by car.

This shows that we have been improving our data collection from the first season where we overestimated our impacts, with this year bringing us closer to reality. It also proves that the Life Cycle Assessment is a successful tool for measuring our impact and allowing us to take decisive actions in all areas of activity in order to keep reducing our impact in the future, and increasing our positive sustainable legacy.

Our most impacting areas in season two were freight, business travel and food and drinks:

**Freight:** As we are a global championship and temporary event we need to move a certain amount of material around with us. Where possible we opt for trucks, trains and boats, as they have a significantly smaller impact than air freight - however our car batteries must be flown for safety reason, making this emission unavoidable.

**Business Travels:** In order to make electric cars and our event as cool as possible this requires the most momentous amount of work and effort from all of our team, and race day requires most of our team to travel to the trackside. Consequently, having all of our team travel by air has been impactful.

**Food and Drinks:** The championship tries to source all food locally and sustainably to reduce the footprint of food and drinks on offer in the eVillage, media centre, crew catering for the staff and teams and for luxury hospitality area, the EMOTION Club.

We understand we are only at the start of improving our habits during the season but the Life Cycle Assessment makes sure that we are fully aware of our impact and provides us with transparency in all operations. For all of the emissions which we cannot avoid, we neutralise through carbon offsetting. Thanks to our partnership with the leaders in renewable energy solutions, Enel, we will identify the most suitable carbon offsetting projects within their worldwide portfolio, which will not only benefit environmental protection but also have very strong social benefits to local communities.



# THE 2016 VISA LONDON EPRIX: A SHOWCASE OF A SUSTAINABLE EVENT BY FORMULA E

At the season finale we had various sustainable initiatives to minimise our negative impact on the environment and to increase our engagement with our fans and community.

**Renewable Energy:** As well as the one hundred per cent renewable Formula E Glycerine Fuel used to charge our cars, we powered 65 per cent of our power needs from vegetable oil generators and for the race weekend the championship hosted London's first ever solar farm. A number of solar panels were generating energy around the eVillage, relax and recharge areas where fans could use our solar powered charging points and we even had solar powered cash machines! Near the BMW i stand you could also take a look at the solar powered racing car built by the Cambridge University Eco-Racing team.

**Food & Drinks:** In the eVillage you could find some sustainable food options such as vegetarian, vegan, locally sourced, in-season, homemade, organic ingredients, Fair Trade and even served in biodegradable packaging. Furthermore, the eVillage food vendors entirely offset their emissions via eForest projects across the UK.

**Supporting the Community:** Fans had the option to text-to-donate to our local charity partner StreetGames, alternatively a donation could be made online when buying your ticket through Ticketmaster. We also gave 2,000 free tickets to Wandsworth Council to distribute amongst the community, and any adults with a ticket to the event could bring two under 16s in for free. There were many activities for the whole family to try, from educational stands to thrilling rides, with special attention taken to get young children excited about e-mobility.

**Inspiration towards a cleaner future:** The eVillage was home to the Visa Inspire tent, which had a number of different activities such as racing in virtual reality or creating energy with your dance moves. The eVillage is an area for our partner's to showcase their latest technologies and we hope to educate and amaze our fans to inspire them to adopt clean technologies.





# OUR MANAGEMENT SYSTEMS

Formula E's strong commitment towards sustainability was laid out in our Environmental Management System in season one. We came together with the sustainable body of the FIA, the FIA Institute, who provided a framework for good practise of which we complied and aligned our policies.

Our Environmental Management System is at the core of our business strategy, and values to highlight our responsibility as a company. Our Environmental Policy is an internally agreed document, adhered to by all employees and shared with all stakeholders, where we state our faith towards the people and the planet, outlining the direction in which we wish move forwards in terms of sustainability. In conjunction with our Environmental Policy is our SMART (smart, measurable, achievable, realistic and time-bound) objectives and targets which guide us in the short and long term towards our goals of sustainability.

At the end of season one we were monitored, audited and became the first championship to be awarded with the highest level of the FIA environmental accreditation system, the **Achievement of Excellence** for our Environmental Management System.

In a continual improvement process regarding our management system we decided to implement The International Standard of

Sustainability in Events, the ISO 20121, at the 2016 VISA London ePrix and received first party certification.

We will use our experience and groundwork as a benchmark to build from and certify the whole championship. From season three onwards, we will implement the ISO 20121 for each of our races and strive to receive third party certification for the entire championship by season four. Other events that have achieved this certification are the London 2012 and Rio 2016 Olympics, the French Open and the UEFA Euro 2016.

This implementation represents our next steps towards a more holistic approach to not only increase our positive impacts on the environment, but also social inclusivity and economic prosperity. The third party certification ensures the highest level of legitimacy and recognition, will increase our sustainable credentials and enhance our business competitiveness. We will be setting a standard in the sports and events industry, of the highest level of sustainable practise and become the first ever motorsport championship to receive this prestigious certification.

In a report created by Positive Impact, our sustainable consultants for the ISO implementation stated:

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*"By working to implement the ISO 20121, the globally recognised standard for sustainable event management, Formula E have showed themselves to be innovative, entertaining, renewable, sustainable and inclusive to all.*

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*In the future, sustainability will be non-negotiable and the fact that Formula E are sharing their journey means others can learn from and be inspired by them."*

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To read the full case study by Positive Impact on the 2016 Visa London ePrix, please click [here](#)

In season three we will be adapting our Environmental Management System, which will reflect our holistic approach taken in the ISO certification where we incorporate economy and social elements, creating our Sustainable Management System.

To see the full version of our Environmental Policy, Sustainable Event Policy and objectives and targets, please see the annex of the report.



## SUMMARY OF OUR RESULTS FROM OUR SEASON 2 OBJECTIVES AND TARGETS:

### Targets met:

- **Reducing our footprint:** We offset our season one electrical footprint through EDPR. We used the Formula E Glycerine Generators to create a circular economy to cater for our own needs, our global caterer and eVillage food vendors. We also where possible use locally sourced, vegetarian, vegan, organic and fair trade options.
- **Promoting and increasing our use of renewable energy:** We charged our cars using one hundred per cent renewable energy at each ePrix, except Putrajaya due to logistical reasons.
- **Minimising the environmental impact of our offices and employees:** We monitored and recorded our waste, paper and electricity consumption over the season and successfully implemented a bin system to segregate waste, recycling and food waste at our HQ.
- **Being at the forefront of our eco-system:** We achieved the highest level of environmental accreditation from the FIA Institute, Achievement of Excellence, we successfully implemented the ISO 20121 at the London ePrix receiving first party certification, and we have made positive strategic partners and connections over season two with the Greensport Alliance, local charities, Enel and Charge.

- **Be open and honest in reporting our results:** We have completed our second Life Cycle Assessment, and will be using the same evaluation for season three.

### Targets continually improved:

- **Breaking down the barriers to the use of electric vehicles:** We are still looking for opportunities to engage the next generation of car owners in experiencing electric vehicles encouraging our partners to host one event per season using their expertise to benefit the local community for our Legacy Programme.
- **Minimising the environmental impact of our offices and employees:** All of our employees are becoming ambassadors by signing our pledge to show their commitment to our policy and sustainability report.





# THE USE AND PROMOTION OF RENEWABLE ENERGY

We are convinced that electric vehicles represent the future of transportation and are the key to a good quality of life, especially in city-centres.

However, we acknowledge that for electric vehicles to reach their full potential for cutting carbon emissions, the power that they use needs to be low-carbon too. Therefore we have committed to power our cars by renewable energy, the Formula E Glycerine Generators. In comparison to a standard production diesel engine, the Formula E Glycerine Generators reduce the amount of carbon by half a tonne, and half a kilogram of poisonous NOx emissions, in just one hour.

At the 2016 Visa London ePrix, 80 per cent of our energy needs were powered by renewable energy resources. In the longer term, it is our vision to have our entire business operations become one hundred per cent renewable too.

This is why the FIA Formula E Championship is part of RE100, a global initiative led by The Climate Group in partnership with CDP, to support influential companies committed to one hundred per cent renewable power. RE100 is working to accelerate the increase of renewable power to transform the global energy market and enable the transition to a prosperous, low-carbon future.



Formula E Glycerine Fuel which powers the Formula E cars

In season two we also partnered with Enel, leaders in renewable energy solutions in order to benefit from their expertise to increase efficiency in the championships technology infrastructure. Enel will work with Formula E to optimise our clean energy generation, distribution, storage and management. A transportable mini-grid in season three will ensure that the championships races continue to place no extra strain on any existing electricity grids. This will also allow us to connect our solar panels and glycerine generators to a highly innovative storage system that will distribute energy at the event as needed and minimise waste.

## Francesco Starace, CEO and General Manager of the Enel Group

*"We are delighted to be partnering with the Formula E team to lend our expertise in accelerating the digitisation of their energy management infrastructure and powering them through our renewable energy generation technologies."*

*Enel and Formula E are natural partners, as we both embrace the exciting opportunities in electric mobility, smart cities and the clean energy revolution. We are now joining forces to continue with our pioneering work in the field of technological innovation for the vehicles of the future."*

Our partnership will benefit each other's desires to drive the future in innovative technologies. With Enel pushing the development of renewable generation technologies, smart grids and e-mobility solutions in the energy sector, Formula E offers a high-tech testing ground for the ongoing development of these sustainable technologies.



Photovoltaic energy generation by Enel at the 2016 Marrakesh ePrix



# RENEWABLE ENERGY USED AT THE RACES:

**Beijing:** 25 per cent Formula E Glycerine Generators

**Putrajaya:** Zero per cent, due to logistical reasons unfortunately

**Punta del Este:** 20 per cent Formula E Glycerine Generators

**Buenos Aires:** 15 per cent

**Mexico City:** 20 per cent Formula E Glycerine Generators

**Long Beach:** 25 per cent Formula E Glycerine Generators

**Paris:** 25 per cent Formula E Glycerine Generators

**Berlin:** 20 per cent Formula E Glycerine Generators

**London:** 65 per cent RE60 generators, 15 per cent Formula E Glycerine Generators





# IMPACTING POSITIVELY: OUR LEGACY





## THINKING GLOBALLY & ACTING LOCALLY

Our approach to fighting climate change is to think globally, and act locally. We are breaking down the barriers to the electric vehicle market and offering a solution to air quality issues, especially in city centres. We have created a global movement towards electric vehicle mass market adoption in order to create tremendous benefits for people and the planet.

A survey conducted by leading global professional services firm Ernst and Young (E&Y) in 2013 projected the potential global positive impacts of Formula E.

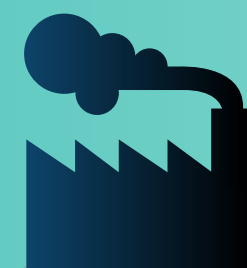
From this, it was shown that, over the next 25 years (2015-2040), Formula E can help sell an additional 77 million electric vehicles worldwide, saving four billion barrels of oil and helping make savings of 25 billion euros on healthcare.

To read the full report please click [here](#)



# 55-77-M

Additional electric vehicles sold around the world over 25 years



# 900M

Tonnes of CO<sub>2</sub> avoided - the equivalent of Italy's annual emissions over two years



# 25BN€

Of savings on healthcare costs and productivity from pollution reduction



# FORMULA E LEGACY PROGRAMME

The Legacy Programme is our commitment to leave behind a long lasting heritage on sustainability through environmental improvements and creating social awareness.

We are always looking for new and exciting ways in which we can collaborate with our partners on sustainable projects, as we have proven how successful we can be when we combine forces, speeding up developments and having a far wider impact on people and the planet.

Cities contribute disproportionately to environmental damage. Globally, they are only two per cent of the planet's surface, but are home to 50 per cent of the population and are responsible for 75 per cent of energy consumption and 80 per cent of carbon dioxide emissions. Current energy intensive modes of urban development and the addition of three billion more city-dwellers by 2050 means we need to take quick and large scale action to limit climate change. If we improve them, even slightly, we can have a great opportunity to impact positively on the whole planet.

There is no denying that air quality and water are some of the most pressing global issues of our time. We believe that these issues are interdependent and are a result of serious environmental damage and climate change.

We supported charities who share our vision of a sustainable future for all because we cannot act alone but we can act as a catalyst between companies, leaders, experts, cities and policy-makers to create a global movement of participation. Our collaboration with our Foundation partners allows us to tackle these important global issues and our local legacy allows us to engage with our community on a local scale tailored to each cities situation.





## FOUNDATIONS

In season two Formula E had two Official International Foundation Partners: One Drop and the Prince Albert II of Monaco Foundation. To address the water issue we joined forces with One Drop, an expert in water, sanitation and hygiene programming. For air, Formula E have partnered with the Prince Albert II of Monaco Foundation, leaders in sustainable development.

One Drop was created in 2007 by Cirque du Soleil Founder Guy Laliberté and aims to significantly and sustainably improve people's health and standard of living, as well as their ability to care for themselves and their families. The organisation is most active in Central America, West Africa and India and builds strategic partnerships in order to increase the sustainability, scale and scope of its programming to resolve the global water crisis.

The Foundation, created by HSH Prince Albert II of Monaco in 2006, is dedicated to the protection of the environment and the promotion of sustainable development. The Foundation's efforts focus on three main sectors: climate change and clean energies, biodiversity and integrated and sustainable water management.

Today, around 780 million people lack access to safe water while 2.5 billion are deprived of access to adequate sanitation. By 2025, 5.3 billion people, two-thirds of the world's population, could lack access to enough water to meet their basic daily requirements.

These sustainability issues result directly from climate change and are interdependent. Therefore, Formula E is dedicated to improving air quality in city-centres through increasing the use of electric vehicles.





## MORE THAN \$1.2 MILLION RAISED FOR OUR FOUNDATIONS

Throughout the first two seasons, the FIA Formula E Championship organised Gala Dinners in collaboration with our Foundation partners, during which auctions were held to benefit a shared project in Guatemala. Over the duration of the season we had exciting items up for grabs such as the Formula E Show car with the iceberg livery and a Garage Sale including different items of the driver's kit, and even some signed car parts that were smashed out of the race. Thank you to all our partners and teams who contributed to support our Legacy Programme.

And a warm thanks to all of the bidders with whose support we are proud to have raised more than \$1.2 million (USD) for our Foundation partners. This project is set to help around 37,000 individuals achieve sustainable safe water access for both drinking and production, accelerating the economic development and quality of life of entire communities.



FONDATION  
PRINCE ALBERT II  
DE MONACO



ONE  
DROP

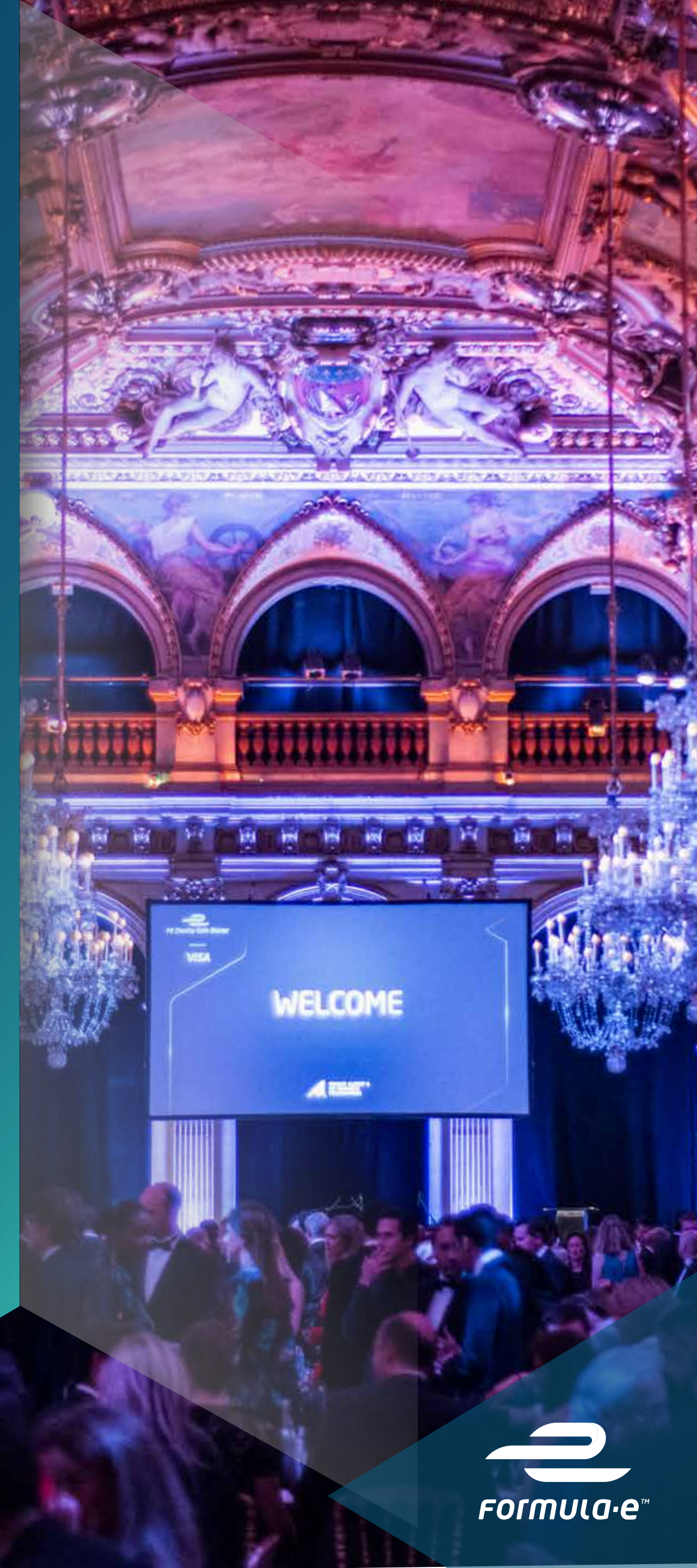
[Joint project in Guatemala >>](#)

### Alejandro Agag, Founder & CEO, said:

*"We are very proud to have One Drop and Prince Albert II of Monaco Foundation as our official Foundation partners. There is a real consistency in our common goals to promote sustainability to improve living conditions for people and the planet. Indeed, we share the same concerns regarding air and water quality which are the global most pressing issues. Thanks to the generosity of the bidders at the auction held at our Gala Dinners we are proud to know that we will be helping people in Guatemala."*

Both One Drop and the Prince Albert II of Monaco Foundation share the same appreciation adding:

*"We cannot emphasise enough how important these partnerships are to the work that we do. Formula E's commitment to sustainability and support for us all throughout the season has been notable. We are absolutely thrilled to have been able to raise such significant funding and to be able to put it immediately to use in a concrete and sustainable way."*





## LOCAL LEGACY

As part of our mission to have a positive impact on the local areas in which we race, we support a local charity to raise awareness around a local message.

On our journey to find a local charity partner to collaborate with we look for themes that resonate with our values and areas which we can offer the best support to.

In the run up to the 2016 Visa London ePrix, Formula E collaborated with the sports charity StreetGames. StreetGames were the perfect match to be our Official Local Charity Partner in London as we both share the vision of: sport, educating children, social inclusion, changing attitudes, creating opportunities, creativity and innovative engagement.

StreetGames are a charity whose aim is to make sports more accessible to young people from the lowest socio-economic groups across the UK. Not only are they increasing health and wellbeing in these young people but are dedicated to lowering youth crime and unemployment through getting kids active, teaching them how to sustain themselves and utilising sports as a tool of creativity and empowerment. They do this in a unique manner, tailoring each project to fit the community in which it serves.



StreetGames charity at the Roehampton Project visit by Sam Bird

Before the race weekend, British and DS Virgin Racing driver Sam Bird headed back to his hometown of Roehampton to get involved in a mini-football festival which brought together a number of different community groups in the area. Showing off his impressive skills, Sam got the chance to speak to the kids and share the story of his road to success and offer some words of advice:

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*"Whatever you want to be in life, whether you want to be a footballer, a mechanic or a racing driver. Whatever it is, all of you can achieve it if you work hard enough and if you push yourself to the limits to achieve that goal."*

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Over the weekend at the 2016 Visa London ePrix in Battersea Park, fans headed over to StreetGames where they created a fun and exciting area where fans could try out some zorbing, bubblefootball and other activities. The StreetGames volunteers had the opportunity to interact with our fans to tell of the history and background of the projects and initiatives of the charity, and to spread the StreetGames message.

Please support StreetGames in their mission to bring sports to as many young people from disadvantaged areas in the UK as possible, by donating through [this link](#).

At the 2016 Visa London ePrix we were also very honoured to host the group Cherished Memories for the day. Cherished Memories are a charity which gives an unforgettable experience to children who have life threatening illnesses or who are terminally ill. We had so much fun with the kids, their siblings and family watching the race, exploring the eVillage and going for a special visit into the garages to meet some of the drivers and find out more about the Formula E race cars.

Cherished Memories also came along to the Formula E pre-season testing at Donington Park this August to see all of the teams testing the cars in anticipation for the upcoming season and have a tour of the Donington Park Museum.

If you would like to find out more, or support Cherished Memories and their incredible mission to give an unforgettable experience to these children, please follow [this link](#).

This upcoming season will be supporting a local charity partner in each region which we race in, to raise awareness around an issue which is causing problems for people living in the cities. Throughout season three we will also be checking in on our local charity partners from the previous year to make sure that we are continuing support in our vision to establish a positive legacy and symbiotic relationship.



Kids from the charity Cherished Memories visiting the paddock at the Visa London ePrix



## PARTNERS' LEGACY

Formula E partners are also committed to leaving a positive legacy on sustainability and contributing to our Legacy Programme.



Not only will Enel help us to optimise our clean energy generation, distribution, storage and management at all of the races, they will also supply a transportable mini-grid to alleviate pressure on the cities grid. Using innovative storage systems to distribute the energy from our glycerine generators as needed, reducing the energy wasted. Enel will identify projects to offset the championships footprint in season three and four, which will make Formula E the first carbon neutral championship in history!



Chargemaster, our Official Charging Infrastructure Supplier, have supplied the wireless charging facilities for the championship's fleet of electric vehicle course cars, supplied by BMW i. Chargemaster have offered 10 electric vehicle charging points to each city in season two.



DHL, our Official Logistics Partner, helped to develop a sustainable race calendar and provide fast, efficient and environmentally conscious transportation services of the championship race cars, medical and rescue cars, spare parts and equipment. DHL are devoted to the research and development of sustainable logistics and partaking in the Formula E Partner's Legacy Programme, Project Ice and leading the eSTORY which explores the behind-the-scenes pioneering innovation of the Formula E platform.



Our Official Tyre Partner Michelin, supplied the championship with unique and specially developed high quality hybrid tyres which are suitable in both wet and dry conditions, lasting the whole race day and recyclable. In the run up to the third season, the upgrade of the Michelin 18 inch tyres will see a higher energy efficient by having less rolling resistance and reduced weight. Each car will gain five kilograms for each tyre, and during the entire third season of the FIA Formula E Championship, 300 tyres will be manufactured and transported.





# THE eSTORY

## UNDERTAKING THE CHALLENGES OF ELECTRO-MOBILITY

Is a research paper lead by our Official Logistics Partner, DHL, where you can explore behind the scenes of the Formula E platform and its potential to drive sustainable mobility innovation, technology solutions and community initiatives that are expected to have a positive effect on the consumer market in upcoming years.

The eStory aims to break down the barriers to the electric vehicle market: technology, infrastructure and perception. By unlocking the potential for boosting innovation and sustainable mobility, facilitating mass market adoption of sustainable mobility solutions, bringing these to the attention of major market players and increasing acceptance through educating people about e-mobility.

The first part of the white paper is based on in-depth research, external reports and interviews with industry experts. It presents the key strategic trends in the global environment from accelerated urbanisation and rising mobility demand to changing consumer needs.

After setting the landscape, the second part highlights examples of how the Formula E ecosystem can be used as a lever to foster innovative thinking. Contributing partners provided case studies that are grouped by activation pillars in the wider ecosystem, namely, technology, infrastructure, and perception.

The last part of the white paper captures the essence of innovation as a strategic area in business and proposes a framework for accessing innovation projects.

The results show what is possible to achieve when being disruptive and ambitious!

The second edition will be released at the end of 2016, featuring updates and new sections on the latest trends regarding sustainable mobility in smart cities.

To read a full version of the report, please click [here](#)





# OFFSETTING OUR CARBON FOOTPRINT

The first season of the FIA Formula E Championship created a carbon footprint that measured 25 thousand tons of CO<sub>2</sub>EQ. That is the equivalent of:

- The electric consumption of 11,000 UK households per annum
- 3,400 trips around the Earth by Car
- 110 flights from London to Chicago with 320 passengers aboard

In season two our footprint measured at 12 thousand tons of CO<sub>2</sub>EQ. This number is equivalent of:

- The electricity consumption of 7,900 UK households
- 1600 trips around the Earth by car
- 60 transatlantic flights from Paris to New York with 320 passengers aboard

Thanks to the in-depth understanding of our footprint from the season one Life Cycle Assessment, we will offset the Paris, Berlin and Visa London ePrix footprint in the second season. In season three and four Enel will identify projects to offset the championships footprint and help us to become the first ever carbon neutral global championship!





# RAISING AWARENESS OF SUSTAINABLE MESSAGES TO OUR GLOBAL AUDIENCE

In season two we created a section on our website called 'Think Locally, Act Globally' where we highlight the benefits of clean technologies and celebrate some of the most genius, ideas, companies and innovators who have taken global sustainable issues and used their knowledge and creativity to pioneer action and change on both a local and global scale.

The strong relationship with our partners and Official Foundation partners allows us to highlight a number of significant pressing environmental and social issues. We acknowledge the importance of creating awareness and educating people in the hope that we can inspire a change and empower people to be able to make more sustainable choices for the future.





# PROJECT ICE

In collaboration with our Official and International Foundation Partner Prince Albert II of Monaco Foundation and our partners Julius Baer, Visa, DHL, Schaeffler and Maison Mumm. Formula E wishes to create awareness on the crucial and pressing issue of melting icecaps. The project includes a stunt of the Formula E race car on an ice cap in Greenland as a metaphor to highlight the importance of electric vehicles adoption to preserve our environment.

In the past decade, scientists who have been studying the Earth's health have documented record high average annual surface temperatures and changes in the distribution of ice, the salinity levels and temperature of the oceans.

Ice caps hold more than 75 per cent of the Earth's fresh water reserves and are home to various wild animals such as polar bears and seals. When the temperatures rise and the ice melts, more water flows from the ice caps and glaciers to the sea, which then heats and expands in volume. This combination has played a major role in raising global sea levels between 10 and 20 centimetres in the past 100 years.

The Arctic sea ice mass has thinned by 10 per cent in the last 30 years. The spring freshwater ice



breakup in the Northern Hemisphere now occurs nine days earlier than it did 150 years ago, and in autumn freezes up to 10 days later. From the Arctic to Peru, from Switzerland to the equatorial glaciers of Man Jaya in Indonesia, massive ice fields, glaciers and sea ice are disappearing, fast.

With more than one hundred million people worldwide living within three feet (a metre) of mean sea level, never before have so many people been so vulnerable to rising sea levels. The projected economic and humanitarian impacts are potentially catastrophic.

The project is not just a worlds-first, but a strong, scientifically backed expedition acting as a starting point for research and studies. During the trip a tracking beacon was placed upon an iceberg that had broken away from the ice sheet. In order to learn more and understand the effects of the melting ice cap and the behaviour of these ice sheets in the open ocean, Formula E have teamed up with Southampton

University in order to advance the understanding of the effect of climate change on the ice that is breaking off from the Arctic ice sheet. Southampton University will continue to monitor the movement of the iceberg and by read and analyse the data from the iceberg tracker gain a deeper understanding of the way these are contributing to rising sea levels.

Professor Jane Hart, Professor in Geography within Geography and Environment at the University of Southampton said:

*"Climate change and its effects require considerable technological advances in order for us to understand and counter them. Formula E are a good example of cutting edge research into new vehicles and the technologies used are closely related to many we work on at the University of Southampton."*

*We hope that the exchange of information between us will benefit not only our research but the public understanding of science and technology."*

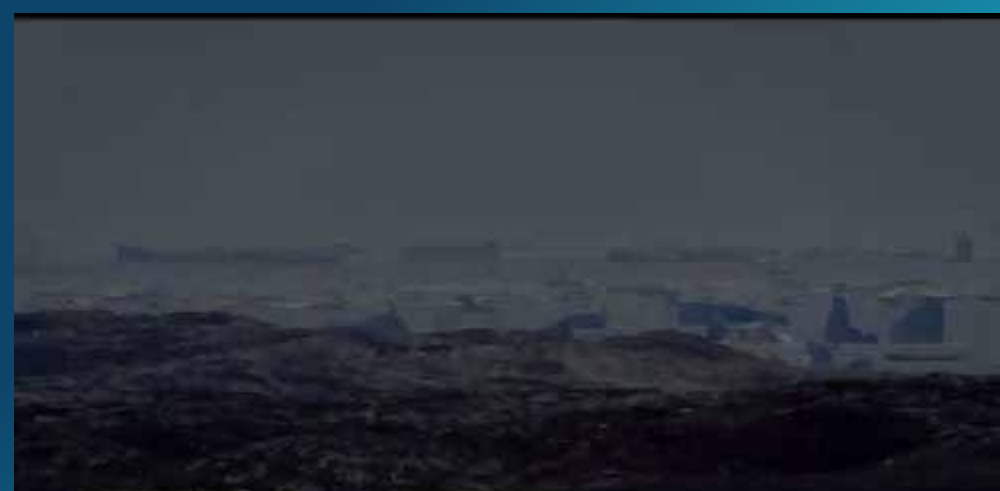


An online web page allows climate scientists and fans alike to follow the iceberg and learn as the iceberg moves along its path. To track the iceberg, please click [here](#).

A special 52-minute documentary looking at every aspect of how the project was put into action was premiered at COP22 in Marrakesh.

Many steps were taken to ensure the legitimacy of the project, and precautions to reduce the negative impacts in order to spread our messages of sustainable transport and the tremendous benefits. Whilst doing our best to reduce the footprint of the project, a comprehensive CO<sub>2</sub> report was created by Quantis, our environmental consultants, to calculate all people and activities emissions generated from the project. We aim to choose a socially orientated project within the local community of Greenland to one hundred per cent offset our emissions via certified carbon credits in order to emphasise the positive impact and leave a legacy.

This project was only possible with the cooperation and assistance of the government in Greenland and their strong desire to raise awareness and the need for action on climate change. This marks the start of a long-term investment of Formula E in highlighting the melting ice caps, and rally people to join the fight against climate change.



[Watch on Youtube >>](#)





# EARTH DAY

In the run up to Earth Day on Friday 22 April, in collaboration with Jour de la Terre, the French association of Earth Day, Formula E released four videos that highlighted some of the most inspiring contributions to sustainable innovation in the themes of: transportation, clean energy, air quality and solutions for a better planet. At the 2016 Visa Paris ePrix, the sustainable innovation videos were played on the big screens throughout the eVillage to inspire our fans.

Earth day marks the beginning and celebration of the modern environmental movement. Earth Day stands today as the largest mobilisation of people to address climate change, protect our planet, and raise our voices in favour of a healthy and sustainable environment.

On Earth day we unveiled the unique Formula E iceberg livery. The special livery was commissioned by Julius Baer and TAG Heuer to show their commitment to addressing climate change issues to a global audience. The show car was decorated with the iconic symbol of global warming and climate change, the iceberg. This is an encompassing symbol of the environmental issues that surround us and urges people to act more responsibly for the planet, most notably by opting for electric vehicles as a solution to air pollution in city centres.

Designed by Garage Italia Customs Studio, the creative hub founded by Lapo Elkann, who specialise in bespoke customisation and have brought to life this one of a kind livery with an important fundamental message, we need to protect the environment. The show car was the star auction item at the post-race Gala Dinner, raising funds for the Prince Albert II of Monaco Foundation.



The livery was revealed at Les Invalides, in front of a gathering of media with all Formula E drivers, Formula E Founder & CEO Alejandro Agag, FIA President Jean Todt, Lieutenant General Bruno Le Ray, Military Governor of Paris and Major General and Christian Baptiste, the War Museum Director showing their support to the initiative.

## President of the FIA, Jean Todt, said:

*"Climate change presents one of the biggest problems facing the world today. Driving the use of electric cars is one of the many ways in which society can help to address this problem. This special car is a symbol of the role that Formula E is playing in raising awareness of this issue."*



[Watch on Youtube >>](#)



# YOUNG PEOPLE

**Jay Penske, Team Owner of Faraday Future Dragon Racing, said:**

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*"Cities aren't supportive of a bunch of loud race cars running through the city creating more pollution. This is an entirely different concept that allows young kids to see electric mobility at its finest form."*

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We want to inspire the next generation to buy an electric vehicle as their first car. President of the FIA, Jean Todt, said: "There are also plenty of activities in the eVillage which engage our youngest fans in new technologies such as in the Inspire tent at the Visa London ePrix, and the modern race simulators in the Visa eSports arena."

One of the most innovative ways the FIA Formula E Championship looks to interact with fans is through FanBoost - where fans can vote through social media to select the driver they wish to give an extra 100kj of energy to during the race. The top three drivers will then receive this to use after their mandatory car swap.

In season two our online gaming platform has taken off, with the eSports offering our fans the opportunity to race the Formula E drivers at each ePrix and take the championship title for themselves. The eSports are live streamed globally through the likes of Twitch and YouTube. Through the eSports we hope to develop further awareness of the benefits of clean mobility and reach new audiences beyond motorsport. In January, the FIA Formula E Championship will put some of the leading names in motorsport against fans in a virtual race in Las Vegas in a bid to win a share of the biggest prize in eSports racing history at CES.

There will also be the opportunity for 10 fans to take part in the event through the Road to Vegas Challenge.

The Formula E Legacy Programme focuses on educating young people about sustainability as we believe in the importance of young people's education as drivers of the future. We are actively working on a programme to make the new generation aware of air quality issues and empower them to act by adopting local solutions that make a real difference.



We always like to hear feedback from fans and those who have been inspired by Formula E. One example of how we are being used as a case study is through university research. We received a graduate thesis from Andrea Lattari at the Faculty of Sport Science at the University of Rome titled, 'The Environmental Impacts of Street Circuits of the FIA Formula E Championship'.

Andrea concluded:

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*"Formula E not only arises as a new sport but develops necessarily ecological and geographical themes motor sport, often bind more to economic and promotional issues. It's obvious that there is a desire for change in environmental choices, not only through car manufacturers (such as technological return exploitable in the mass production of electric vehicles) but also the competitions in many more cities and locations than in the past, being now, these, more sustainable events from the environment, from the urban fabric and society.*

*Formula E is the leap towards sport taking a "green" perspective, having as basis the improvement of the quality of human life and environmental sustainability of the same activities, including contributing to the tourist development of the resorts that host the demonstrations.*

*We must therefore promote, and give the possibility, to initiatives such as those promoted by the Formula E itself, to expand and to continue its work, from which we could reap the benefits both of us, and our planet "*

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To read Andrea's full thesis, please click [here](#)

We were also in touch with Philippe Hohlfeld who was working on his masters degree, focusing on Zero Emission Logistics at Imperial College London and Innovation Design Engineering at the Royal College of Art. Philippe has developed a smart solution to counteract the negative impacts of our consumer habits. His project GrowFrame is a collapsible hydroponic farm which cultivates food in empty shipping containers on the way back to Asia. He found that half of the containers going back to Asia are empty, and GrowFrame hopes to utilise this space positively, turning the containers into the 'farms of tomorrow.'

Philippe said:

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*"GrowFrame is unique in that it sees the resources we spend on shipping empty containers around the world in a new light.*

*Rather than vilify the container and try to replace the shipping container infrastructure, GrowFrame sees the empty space as a resource to be used to boost the shipping economy and rebalance global trade and resources. Rather than try to collapse the containers, I am aiming to repurpose the 9000+ hectares of land travelling around the globe into the world's future food source."*

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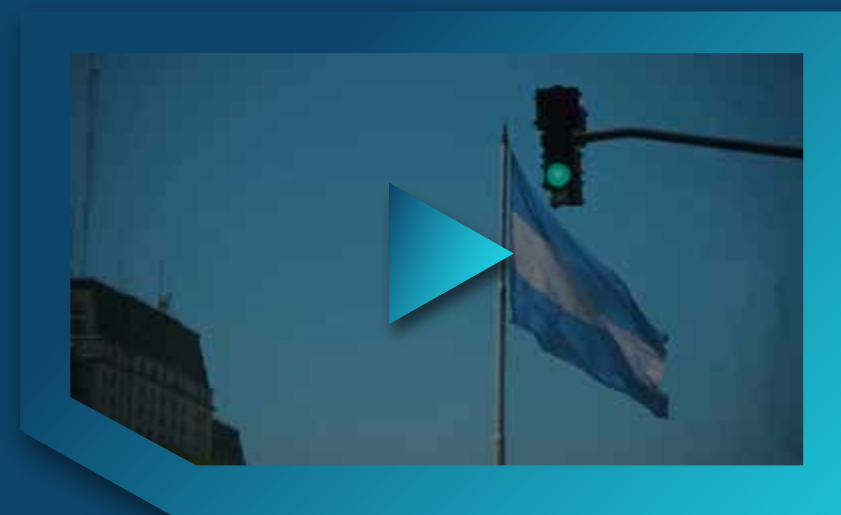




## SUSTAINABILITY IN BUENOS AIRES

In the run up to the Buenos Aires ePrix, our team set out to highlight the sustainable credentials of the city.

Buenos Aires is trying to reduce their CO<sub>2</sub> emissions by 30 per cent by 2030, and we believe that the uptake of electric vehicles is the next step to drastically reduce emissions and demonstrates the cities commitment to embrace new technologies, clean mobility and increase the respect for the environment through creating awareness and changing perceptions.



[Watch on Youtube >>](#)



## FORMULA E'S SUSTAINABLE LEGACY AT THE 2016 VISA LONDON EPRIX

We engage with our community through our global online platforms and Legacy Programmes to raise awareness, educate and inspire change. It is our vision to be leaders in what we do, and so in the activities surrounding the Visa London ePrix, we wanted to update our fans what we were doing in terms of sustainability.

The video outlined how we were reducing our footprint, what sustainable options were available in the eVillage and how we envisage the future of sustainable transportation. It also highlighted how our Legacy Programmes unfolded at the London ePrix with our and local charity partners, StreetGames who were showcasing their messages in the eVillage. In the run up to the race Sam Bird gets involved by having a knock about with the football and offering some words of inspiration to the young people from disadvantaged areas of Roehampton and Battersea.



[Watch on Youtube >>](#)



# OUR ACHIEVEMENTS





# THE BUSINESSGREEN LEADERS AWARDS

Formula E were the proud winners of two prizes at the prestigious Business Green Leaders Awards 2016:

**Company of the Year:** This award goes to the company who has committed to developing innovative and sustainable business practises, put in place initiatives to reduce their impact on the environment and has done the most to promote low carbon economies.

**Sustainability Team of the Year:** The award honours the sustainability team who has delivered quantifiable environmental and operational improvements in their business, has effectively communicated sustainability in an innovative manner and has successfully executed sustainable projects.



*“The BusinessGreen Leaders Awards celebrate innovation and those willing to be a champion of change. As Formula E aims to redefine the motor sport sector, defying traditional thinking and encouraging a more environmentally friendly and sustainable future within the industry, it is a very deserving winner of both the Sustainability Team and Company of the Year awards”.*

**Peter Skinner, Chief Executive EMIA,  
Environment & Ground Engineering at AECOM**





# BRITISH RENEWABLE ENERGY AWARDS

**Low Carbon Transport:** This category recognises quality, innovation and commitment in low carbon vehicles powered by clean energies, highlighting the pioneering zero emission and one hundred per cent renewable fuel used to power the Formula E cars by the glycerine generators. The award also recognised the strong efforts of Formula E to accelerate technology in sustainable mobility technologies alongside our partners.





## TVE GLOBAL SUSTAINABILITY FILM AWARDS

### Net Positive Leadership Award:

This category recognises the companies whose ambition is to grow their brands and business by investing more in society, the environment and the global economy than they take out.

**tv/e** global sustainability  
film awards 2016  
**Finalist**

## BUSINESSGREEN TECHNOLOGY AWARDS

### Transport Technology of the Year:

This award goes to the most innovative technology dedicated to improving the environmental performance of the transport sector and has a large potential of green benefits.

businessGreen  
**TECHNOLOGY AWARDS 2016**  
.....  
**FINALIST**





# DRIVING THE FUTURE

# ALREADY





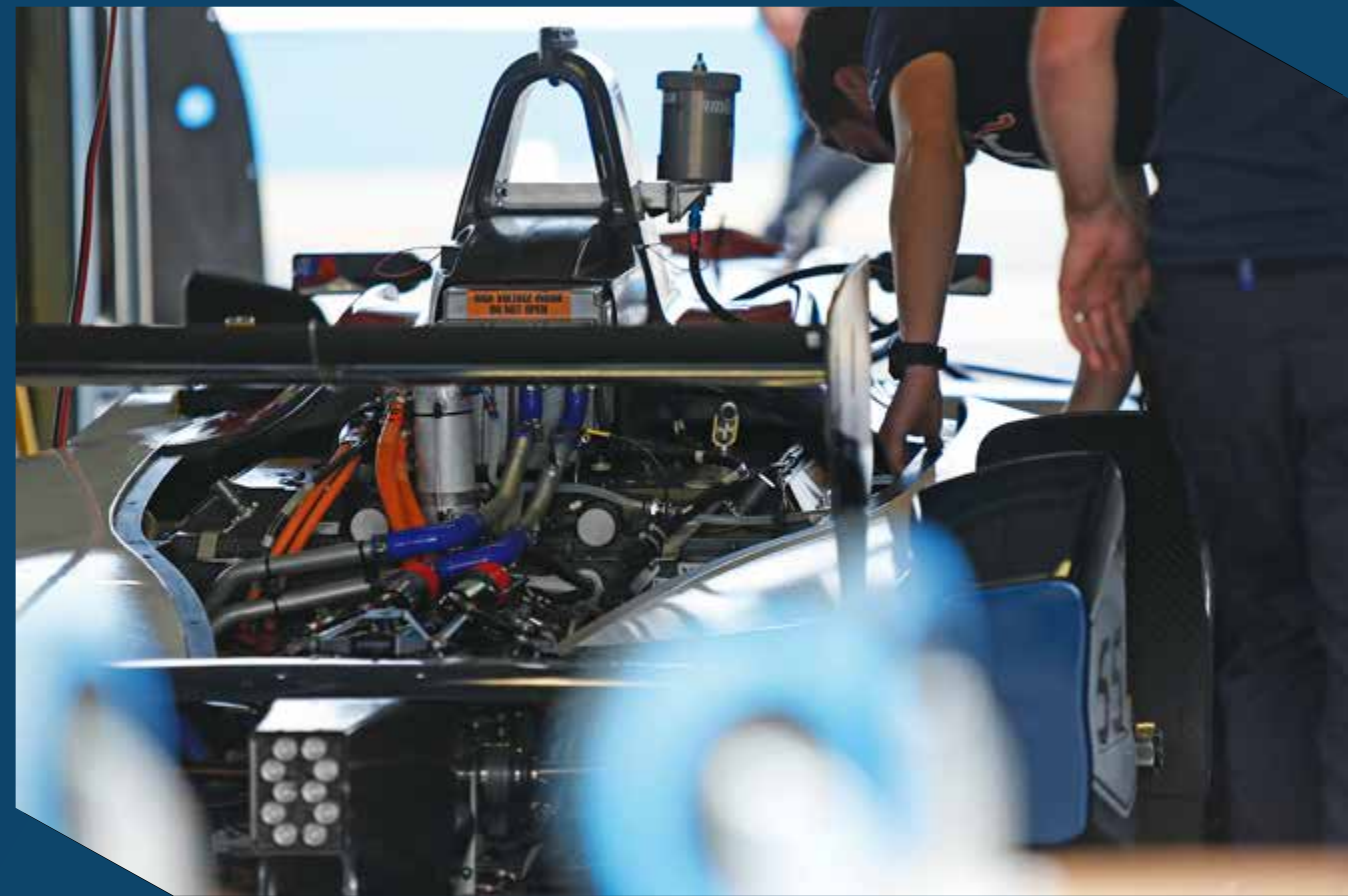
# SEASON THREE CALENDAR





# RACE CAR DEVELOPMENTS

The FIA World Motor Sport Council has chosen McLaren Applied Technologies as the exclusive battery supplier of the championship. Working together, the development of the battery will advance technology to allow one battery to cover full race distance by season five.



FIA President Jean Todt said:

*"It is a completely new kind of technology in motoring, so the biggest issue is duration of the batteries - the autonomy - and it is very much adapted to cities. Because in cities you don't have a long distance to achieve and you have opportunities to recharge when you are home or when you are in a working place or shopping place or wherever."*

*"That is why we want to promote electric technology in the cities and we will be able to demonstrate in season five, that in just five years we have been able to double the autonomy of the car. In season five there will also be a new, very different car. We want Formula E, an FIA Championship, to be a visionary championship. We want to highlight how our racing cars will be, not in two years but in 20 years, so that it is kind of a laboratory for motor racing."*





For Season three, Michelin are introducing a new version of their unique, treaded 18-inch Formula E tyres. These new tyres are designed to be more energy efficient by having less rolling resistance and reduced weight. Each car will gain five kilograms per tyre.

The development of the FIA Formula E Championship can be cemented with new manufacturers committing their participation in the future.

Mercedes-Benz Grand Prix Ltd (MGP) have signed an agreement giving them the option to enter the championship in season five.

[Watch on Youtube >>](#)



Formula E, Season Three Drivetrain Developments

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*"We are delighted to confirm that we have reserved one of our two new entries in season five for MGP. Formula E wants to become the platform where car manufacturers test and develop the technologies that they will then introduce on their road cars.*

*Having the chance to include a brand like Mercedes in our championship in the future would be a major boost to achieve that objective.*

*Formula E is becoming an exciting mix of consolidated manufacturers like Renault, Citroen-DS, Audi, Mahindra or Jaguar, and new futuristic brands like Faraday Future, NextEV, or the likes of major component manufacturers like Schaeffler and ZF. Mercedes would be a great addition to that growing line-up."*

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Alejandro Agag, Founder & CEO of Formula E



# AUTONOMOUS DRIVING

## ROBORACE

Roborace is the world's first driverless electric racing series, created to accelerate the development of both electric and driverless technologies.

Roborace will showcase the capabilities and safety of these new technologies and highlight their enormous potential to transform cities on every level reducing traffic, accidents, pollution and more.

It will be a competition of intelligence as forward thinking companies use Roborace's open artificial intelligence platform to further evolve their software development so that the technology can be brought to consumers earlier and change our roads for the better.

The Roborace team are currently testing their hardware and software using their prototype "DevBot" cars on Formula E's city street circuits before teams start to compete using the ultimate Robocar created by automotive futurist designer Daniel Simon.





## CERTIFY THE ENTIRE CHAMPIONSHIP FOR THE ISO 20121:

In the wake of implementing the International Standard of Event Sustainability and first party certifying the 2016 Visa London ePrix, we will be working on implementing a third party certification for the entire championship by season five. This shows our commitment to become leaders in sustainability in the sports industry and to take a more holistic approach to understanding our impacts. This allows us to take decisive action in terms of excellent sustainable practice in the conception, organising and execution of all of our events in the future.

## RENEWING OUR LIFE CYCLE ASSESSMENT

We will renew our Life Cycle Assessment in season three with our Environmental Consultants, Quantis. In season two our data collection brought us even closer to reality, allowing us a deeper and more holistic understanding of our impacts as a championship. We will use our season three results as our benchmark to set our objectives and targets for reduction of our footprint in all areas of our activities in the future.







MARRAKECH  
COP22|2016|CMP12  
UN CLIMATE CHANGE CONFERENCE

## COP22

For the year 2016/2017, the sustainability world will congregate in Marrakesh for COP22 - The 22nd Session of the Conference of Parties to the United Nations Framework Convention on Climate Change.

COP22 brings together the body of the United Nations Framework Convention on Climate Change (UNFCCC) to discuss the opportunities and challenges for implementing the Paris Agreement, an agreement by over 190 countries to reduce global emissions and fight climate change.

The focal area this year looks to Africa, and what means of finance, capacity building and technology will be available to effectively support the implementation of the Paris Agreement. Discussions will be made on how COP22 can instigate countries and partners to foster transformative alliances which will help African countries move towards low carbon economies and societies.

The convention specifies that:

*"Parties should protect the climate system for the benefit of the present and future generations on the basis of equity and in accordance with their common but differentiates responsibilities and respective capabilities."*

Formula E have been awarded with a COP22 label, representing COP22's support of the FIA Formula E Championship and all of its activities in the run up to the Marrakesh ePrix on November 12 2016. A COP22 label gives recognition of Formula E's commitment to fighting climate change and reinstates the validation from organisers that Formula E are innovating in line with the objectives of COP22.

## BE PART OF MAJOR AND GLOBAL SUSTAINABLE EVENTS

We want to act as a global platform to promote electric vehicles worldwide. This is why it is important for us to be present at high profile sustainable events to convey our messages, to meet with the most influential leaders, to be heard and to enable future progress.



## INSPIRING THE YOUNGER GENERATION

For season three, it is the FIA Formula E Championships priority to find ways in which we can reuse the batteries used in Formula E cars once the performance has gone. Although they may not be able to run in 'race mode' due to the risk of inequalities in the energy generation and to ensure equity between the teams they still have 15-20 years of usage in them.

The Battery Development Programme will bring together our partners, manufacturers, suppliers, and experts in the industry with University engineer students to offer both an educational platform for them to develop their craft to boost the development of the battery afterlife and find different solutions for the repurposing of batteries in increasingly sustainable and innovative forms.

We constantly hold the belief that young people's education in sustainability is the key to a better future. This is the beginning of a number of programmes in which we wish to inspire children in STEM (science, technology, engineering and maths) subjects. We are developing a new programme, which focuses on young people's education in environmental messages, in particular on air quality issues. Through this education we wish to create an awareness of what issues and behaviours are causing negative impacts on the environment, and how change can be made

on an individual scale, to impact on a global scale. **Fiona Pargeter, the Global PR Communications Director for Jaguar Land Rover said:**

*"Yes we want to be successful on track, but Formula E can be a once in a generation opportunity to inspire the future generations of engineers. A global platform to inspire and attract young children to a career in innovation and engineering."*

These opportunities will provide young people with invaluable insights and knowledge into the industry, give them the chance to meet with professionals in the field and be a part of the ground-breaking research and development.





## SHARING OUR KNOWLEDGE

The ISO 20121, which we implemented at the 2016 Visa London ePrix encompasses all areas of the championship's activities. In this way the growth we have made to our management system means that we have set a strong foundation to share and exchange our knowledge with all of our teams, partners and the rest of the sporting industry.

Together we can inspire each other to continually embed sustainability deeper into our conception, organisation, execution and legacy of our business, as well as the influence we have beyond the championship.

We are encouraging our teams to drive their development of sustainability through implementing a sustainable management system to all areas of their activities. It will be a priority to establish the FIAI's environmental management accreditation. We hope that we can inspire teams to have reached the Progress Towards Excellence by the end of season three, and the highest level, the Achievement of Excellence by the end of season five.

## ADHERING TO THE UN GLOBAL COMPACT

The UN Global Compact is the world's largest voluntary corporate responsibility initiative. Partaking in the compact is a strong commitment to the implementation, disclosure, and promotion of ten universal principles in the areas of human rights, labour, environment, and anti-corruption.

The UN Global Compact provides a principle based framework for best practises, resources and networking events which will transform the way in which companies conduct their business responsibly and keep their commitments to sustainability.

By joining the UN Global Compact, Formula E have shown that we share the belief that business practises should be more firmly rooted to a stable and inclusive global market in order to help build more prosperous societies.

We will adhere to the UN Global Compacts transparency and accountability policy known as the Communication on Progress (COP) to follow through our commitment to the pledge and to guide our approach to activities in a more holistic and sustainable manner.





# ENDNOTE

Formula E is a technological laboratory for cross industry collaboration between some of the world's leading companies to innovate and accelerate the production and development of clean technologies.

Formula E is fighting climate change by offering a solution to air quality in city centres through breaking down the barriers to the electric vehicle market: technology, perception and infrastructure.

We are a disruptive sport who inherently promotes sustainability, innovation and advancement in the technologies that will better the cities that we live in.

We have reported our results in the hope that it will inspire people to join us on our journey.





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# FARADAY FUTURE: INNOVATING THE FUTURE

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# OUR ENVIRONMENTAL POLICY

Future economic growth and the increased mobility of people is a major challenge that cities face. These can have a significant impact on our climate. The FIA Formula E Championship is dedicated to leading the way in responsibly and proactively minimising adverse contributions to climate change. Formula E promotes the use of electric vehicles to protect natural resources and the global environment. As the world's first fully-electric single-seater championship, As the world's first fully-electric single-seater championship,

Our Environmental Policy reflects Formula E's commitment to engage with our stakeholders, suppliers, and employees to act responsibly incorporating sound environmental practices into our business decisions.

Formula E is committed to assessing the environmental impact of our activities and to reduce wherever practicable the impact through the establishment of appropriate objectives and targets.

We have highlighted the following key areas:

1. Looking for innovation that contributes to improving sustainability: the championship pushes for advances in technology and the development of innovative solutions that will benefit people and the planet
2. Breaking down barriers to the use of electric vehicles: we aim to enable acceleration in the research and development of electric vehicles. Promoting electric vehicles to the public, proving that they are reliable, affordable and have great performance. Showing

how electric vehicles are a viable alternative and encouraging the next generation to join us in our passion

3. Reducing our footprint by improving efficiency: we aim to continuously improve our environmental performance, designing the championship from a sustainable point of view to reduce our footprint wherever possible in both our offices and at each race location
4. Promoting and increasing our use of renewable energy: in addition to using electric energy to power our cars, we aim for a completely environmentally friendly strategy by using, where possible, innovative and renewable energy sources to power our events
5. Minimising the environmental impact of our offices and employees: we actively promote the efficient use of natural resources by minimising our consumption of energy and water whilst reducing waste and transport emissions where possible
6. Striving to exceed our legal requirements: we comply with all laws, regulations and directives in each race location but also do our best to lead by example, leaving a legacy of best practice to the communities that host us

7. Being at the forefront of our ecosystem: we aim to be recognised for our commitment to sustainability by the international bodies that share our values and inspire our stakeholders

8. Be open and honest in reporting our results: we will conduct scientific studies to measure our impact so that others can judge the progress we make and can learn from it. Publicly reporting on our footprint pushes us to establish targets and objectives that make us continually strive to improve

We agree to regularly review our environmental performance, objectives and targets to assess progress and continually improve. This policy statement will be periodically reviewed to ensure continued compliance with all relevant environmental legislation, regulations, standards and directives.

**Date: 30th September 2015**



**Alejandro Agag**  
**Founder & CEO of Formula E Operations Limited**



# SEASON TWO 2015/2016 SUSTAINABILITY OBJECTIVES AND TARGETS

Our sustainability objectives and targets for season two as of October 2015 are summarised below. Season two runs from 1st September 2015 to the 31st August 2016.

**Key to the table:**

- +++** Target exceeded
- ++** Target met
- +** Target not met but improvement in performance since last year
- Target not met and deterioration in performance since last year

ENVIRONMENTAL POLICY KEY AREA	OBJECTIVE (LONG TERM GOALS)	TARGET (SHORT TERM GOALS)	STATUS	COMMENTS
<b>2- Breaking down barriers to the use of electric vehicles</b>	To continually develop our Legacy Programme each season	Each season offer children an opportunity to experience electric vehicles from season two onwards	++	<ul style="list-style-type: none"> <li>• We engaged young people and gave them the opportunity to experience electric vehicles at each of our ePrix.</li> <li>• We collaborated with charities StreetGames and Cherished Memories at the London ePrix.</li> </ul>
		Engage partners to host one event per season using their expertise to benefit the local community by the end of season four	++	<ul style="list-style-type: none"> <li>• The eStory is an ongoing programme that we are renewing each year.</li> <li>• FIA Smart City Concept will be launched in season three.</li> </ul>
<b>4- Reducing our footprint by improving efficiency</b>	Reduce our footprint by implementing a carbon offsetting programme by the end of S5	To cut our CO <sub>2</sub> emissions by 30 per cent by the end of S5	++	We reduced our footprint from season one by 13,000 tCO <sub>2</sub> eq. This is almost a 50 per cent reduction in our footprint from our inaugural season where we had to over-estimate our impacts. Although we made reductions to our footprint as a result of the season one life cycle assessment, the decrease is mainly attributed to an improved data collection, bringing our measurements closer to reality.
		Offset our season one electrical footprint by the start of season two	++	We have successfully offset our season one footprint through EDPR. Please see EDPR certificate.
		By the end of season two design an offsetting program for the following four seasons	++	Our Partner Enel will offset our season two footprint in Paris, Berlin and London and our total season three and four footprint. We are also working on a common roadmap until season six.
		Where Aquafuel generators are used, feedback excess energy into the local grid by season three	++	We have changed our approach -Instead of feeding back into the grid we are using the excess energy created for the cars to create a circular economy and power on own needs at the races. For more information please see use of renewable energy at the races on page 40 of the report.
		Research and implement more sustainable food and drinks options for both crew and spectators at each race event by season three	+++	<ul style="list-style-type: none"> <li>• In the supplier selection process there is a sustainability questionnaire which has to be signed to show compliance to our sustainability pledge.</li> <li>• Our global caterer has strong sustainable credential sourcing food locally and the eVillage vendors supply various sustainable food options such as vegetarian, fair trade and organic.</li> </ul>



ENVIRONMENTAL POLICY KEY AREA	OBJECTIVE (LONG TERM GOALS)	TARGET (SHORT TERM GOALS)	STATUS	COMMENTS
<b>5- Promoting and increasing our use of Renewable Energy (RE)</b>	As part of our commitment with RE100, use one hundred per cent renewable energy for the race events, by the end of season five	Charge the cars using one hundred per cent renewable energy at each ePrix from season two onwards	++	We now charge the cars using one hundred per cent renewable energy at the each ePrix thanks to the Formula E Glycerine Generators. Unfortunately due to logistical reasons this was not possible in Putrajaya.
		Power the race events increasing renewable energy by 15 per cent more each year to reach our season six objective, starting from season two	-+	<ul style="list-style-type: none"> <li>The electrical footprint from season one to two has decreased significantly due to an increase in renewable energy use and a more precise Life Cycle Assessment data collection.</li> <li>From Season three, Enel will be measuring and optimising our clean energy generation and we will use this data as our benchmark for optimised measurement for the next seasons.</li> </ul>
		As part of our annual sustainable report include a renewable energy review of the season from season two	++	Please see page 40 of the report
<b>6- Minimising the environmental impact of our offices and employees</b>	By increasing employee awareness and improving facilities, be able to annually reduce the environmental impact of our offices	All our employees to become ambassadors by reading and signing our environmental policy and sustainability report from season two onwards	-+	<ul style="list-style-type: none"> <li>In season two we have been engaging with our team and stakeholders for feedback.</li> <li>In season three and four we will develop the whole standard on the championship level so that employees are further involved with the process and especially in regards to our policy.</li> </ul>
		Monitor and record office paper consumption by the end of season two	++	Measuring from September 2015 to September 2016 we have used a total of 96,000 sheets of paper in our HQ.
		Reduce paper consumption by 10 per cent the end of season three	-+	We will use season two paper monitoring to benchmark our reduction for season three.
		Monitor and record waste (i.e. plastics and food) produced in the offices by the end of season two	++	On average we produce around one bin of food waste, two bins of recycling and two bins of general waste averaging 16kg of waste each day.
		Put in place a system to segregate the waste by the end of season two	+++	We have successfully implemented a three bin policy to segregate general waste, food waste and recycling. In the office we have a zero waste to landfill policy.
		Reduce waste in the offices by five per cent by the end of season three	-+	We will use season two waste monitoring to benchmark our reduction for season three.
		Monitor and record the office electricity consumption by the start of season two	++	On average we use around 4,500 kWh of electricity each month.
		Reduce annual office electricity consumption by 10 per cent by the end of season two	-+	The meter readings were initially wrong so we need to restart from scratch from January 2016 onwards, using our season two results as a benchmark for our season three reduction.



ENVIRONMENTAL POLICY KEY AREA	OBJECTIVE (LONG TERM GOALS)	TARGET (SHORT TERM GOALS)	STATUS	COMMENTS
<b>7- Striving to exceed our legal requirements</b>	To meet and exceed social and environmental laws each season	Keep an annual record of the relevant social and environmental laws that apply to Formula E	-+	<ul style="list-style-type: none"> <li>We are aware of all local and international laws that apply to executing the championship.</li> <li>We created a legal register for the ISO certification of the London ePrix.</li> <li>For ISO certifying the whole championship we will create a legal register, taking into account all of the laws and regulations that apply to our events worldwide.</li> </ul>
		Ensure our business activities comply with any changes by the end of the following season	++	<ul style="list-style-type: none"> <li>We are aware and up-to-date with all laws and regulations that apply to each event otherwise simply we would not be able race.</li> <li>We will check the register annually and make sure it is up-to-date.</li> </ul>
<b>8- Being at the forefront of our ecosystem</b>	Gaining at least two strategic partners by the end of season three	Obtain FIAI Excellence Accreditation by the start of season two	+++	We became the first championship to ever receive the highest level of environmental accreditation, the achievement of excellence!
		FIAI Excellence Accreditation renewed from season two onwards	++	The next audit will take place at the end of season three.
		Obtain ISO 20121 (sustainable events) certification between season three and season four	++	We received 1st party certification at the London ePrix and we received first party certification are on course to start implementing the ISO to the whole championship with the aim of third party certification by the end of season four.
		Adhere to UN Global Compact and apply their 10 principles between season three and season five	-+	This is part of our season three strategy and has been budgeted.
		Research potential strategic partners and make connections by the start of season three and season five	+++	<ul style="list-style-type: none"> <li>GSA, BASIS, SEA, Local Charities, ENEL etc.</li> <li>We have a close connection with the sales team to work on sustainable credentials of our potential sponsors/partners</li> </ul>
		Create a strategic partnership between season three and season four	++	<ul style="list-style-type: none"> <li>This is an ongoing process and sustainability plays a crucial role in the recruitment of partners and host cities.</li> <li>We are in open conversation with a new foundation partner and local charity partners.</li> </ul>
<b>9- Be open and honest in reporting our results</b>	To produce at least one scientific study each season based on sound data that will be made publically available	Complete the Life Cycle Assessment by the start of season two	++	<ul style="list-style-type: none"> <li>This season, our footprint has been calculated at 12,000 tCO2-eq.</li> <li>We will renew the Life Cycle Assessment with Quantis in season three.</li> </ul>
		Each season collaborate with a company to measure our footprint from season two onwards	++	Approved by the management and renewed budget season three.
		Publish the first sustainable report by the start of season two	++	Available on our website.
		Update and published the sustainable report annually from season three onwards	++	We will publish an annual sustainability report and for season three we aim to make our report GRI compliant.
		Enter Formula E data into the FIAI carbon reporting tool by the start of season two	++	<ul style="list-style-type: none"> <li>In season two we entered our season one into the FIAI carbon reporting tool.</li> <li>In the upcoming season we will increase our focus on the Life Cycle Assessment as it is a more holistic approach to measuring our impacts.</li> </ul>



# OUR SUSTAINABLE EVENT POLICY

Formula E recognises that its event management activities, products, services and operations have the potential to have both a positive and negative environmental, social and economic impact.

We aim to minimise our significant negative impacts in all three of these areas and ensure commitment to satisfy applicable legal and other requirements. We will regularly audit our compliance with legislation and with this policy, measure our progress and continually improve wherever practicable.

Our purpose is to be a global leaders in innovative entertainment, bringing electric motorsport to city centres and discovering solutions for climate change through a fusion of technology, sustainability and digital channels.

We regularly review our principles to ensure that they meet with the Governing Principles of Sustainable Development of stewardship, integrity, transparency and inclusivity.

To ensure these values are adhered to we are operating in line with the ISO 20121, the International Standard for Sustainable Events Management.

The scope for our ISO 20121 management system incorporates all production and running operations of the 2016 Visa London ePrix, taking into account the event management cycle from conception to planning through to implementation, review and post event activities.

- Using this standard the FIA Formula E Championship has set the following objectives based on our identified issues:
- Reduce the overall CO<sup>2</sup> emissions of the London event by 30 per cent by the end of season six (2020)
- Increase and improve our communication both internally and externally with interested parties, in relation to the London event, compared to inaugural season (2015)
- Engage more effectively with the Battersea Park/Wandsworth local community, in relation to the London event, compared to season one (2015).
- Leave a long lasting positive heritage on sustainability by implementing at least one Legacy initiative at each hosting city, from London season two onwards (2016)

At Formula E we aim to achieve the objectives of our ISO 20121 Management System, by having clearly defined management responsibilities, actions and by promoting employee involvement.

For each of the above objectives, detailed targets have been set with the aim of achieving continual improvement in our performance.

We are committed to demonstrate leadership and on-going consideration of our potential legacy with the implementation of event sustainability.

This policy will continue to be reviewed, and will be brought to the attention of all employees and made available to all stakeholders including the general public via our website [www.fiaformulae.com](http://www.fiaformulae.com) or on request.

Authorised by:



**Alejandro Agag**  
Founder and CEO of Formula E Holdings

Approved by:



**Oliver McCrudden**  
Event's Director of the VisaLondon ePrix 2016

**Date: 01/06/2016**



# RENEWABLE ENERGY CERTIFICATE

RENEWABLE ENERGY CERTIFICATE



## Renewable Energy Certificate

Green Power Offsets LLC will purchase and retire renewable energy credits from Blue Canyon Wind Farm VI to offset the following amount of consumed energy:

# 10,000,000 kWh

For: Formula E

Date: October 2<sup>nd</sup>, 2015

Gabriel Alonso  
Blue Canyon Wind Power VI LLC



**Blue Canyon VI Wind Farm**

Year Online: 2011  
Closest City: Lawton, OK  
Farm Capacity: 100 MW  
Tons CO<sub>2</sub> Offset Per Year: 300,000

visit [www.edprwindfarms.com/poweredbywind](http://www.edprwindfarms.com/poweredbywind)







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